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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 50.9091 Seconds
(without alignments)
628.495 Million cell updates/sec

Title: US-09-869-169C-11

Perfect score: 18

Sequence: 1 gggctgtctgtggtgcgc 18

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*

2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*

5: /cgn2_6/ptodata/1/ina/H COMB.seq:*

6: /cgn2_6/ptodata/1/ina/PTUS COMB.seq:*

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8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*

9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16.4	91.1	1254	3	US-10-085-612A-4
2	16.4	91.1	1438	3	US-09-949-016-12300
3	16.4	91.1	35803	3	US-09-949-016-11863
4	16.4	91.1	35804	3	US-09-949-016-12962
5	16.4	91.1	103934	3	US-09-949-016-14433
6	15.4	85.6	2470	3	US-09-091-725-18
7	15.4	85.6	2546	3	US-09-091-725-12
8	15.4	85.6	4403765	3	US-09-103-840A-2
9	15.4	85.6	4411529	3	US-09-103-840A-1
10	15	83.3	601	3	US-09-949-016-179785
11	15	83.3	601	3	US-09-949-016-187895
12	15	83.3	29393	3	US-09-949-016-17024
13	15	83.3	43267	3	US-09-949-016-17024
14	15	83.3	390416	3	US-09-949-016-16923
15	14.8	82.2	601	3	US-09-949-016-177364
16	14.8	82.2	601	3	US-09-949-002-2054
17	14.8	82.2	601	3	US-09-949-002-2055
18	14.8	82.2	1053	3	US-09-533-559-1378
19	14.8	82.2	1055	3	US-09-215-131-3
20	14.8	82.2	1055	3	US-09-222-734-3
21	14.8	82.2	2065	3	US-10-104-047-920
22	14.8	82.2	2091	3	US-09-902-540-7268
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169	13.8	76.7	3234.3	US-08-893-828-31	Sequence 31, Appl	242	13.8	76.7	46447.3	US-09-949-016-15077	Sequence 15077, A
170	13.8	76.7	3234.3			243	13.8	76.7	49313.3	US-09-949-016-15063	Sequence 15063, A

C 390	13.4	74.4	3879	3	US-08-916-352-1	Sequence 1, Appl	463	13.4	74.4	10585	3	US-09-949-016-13818	Sequence 13818, A
C 391	13.4	74.4	4055	3	US-09-949-016-62201	Sequence 2201, Ap	C 463	13.4	74.4	11864	3	US-08-961-527-61	Sequence 61, Appl
C 392	13.4	74.4	4058	3	US-09-949-016-6205	Sequence 6205, App	C 465	13.4	74.4	11948	3	US-09-949-016-11924	Sequence 11924, A
C 393	13.4	74.4	4094	2	US-08-231-193A-29	Sequence 29, Appl	C 466	13.4	74.4	11982	3	US-09-949-016-17084	Sequence 17084, A
C 394	13.4	74.4	4094	2	US-08-486-273A-29	Sequence 29, Appl	C 467	13.4	74.4	12032	3	US-09-949-016-15080	Sequence 15080, A
C 395	13.4	74.4	4094	2	US-08-480-474-29	Sequence 29, Appl	C 468	13.4	74.4	12032	3	US-09-949-016-15081	Sequence 15081, A
C 396	13.4	74.4	4094	3	US-08-940-086A-29	Sequence 29, Appl	C 469	13.4	74.4	14967	3	US-09-949-016-17480	Sequence 17480, A
C 397	13.4	74.4	4094	3	US-08-940-035A-29	Sequence 29, Appl	C 470	13.4	74.4	14967	3	US-09-949-016-17481	Sequence 17481, A
C 398	13.4	74.4	4094	3	US-08-935-105A-29	Sequence 29, Appl	C 471	13.4	74.4	16073	3	US-09-949-016-12312	Sequence 12312, A
C 399	13.4	74.4	4094	3	US-09-648-797-29	Sequence 29, Appl	C 472	13.4	74.4	16073	3	US-09-949-016-12312	Sequence 12312, A
C 400	13.4	74.4	4094	3	US-09-386-123-29	Sequence 29, Appl	C 473	13.4	74.4	25175	3	US-09-949-016-16247	Sequence 16247, A
C 401	13.4	74.4	4094	3	US-10-038-937-29	Sequence 29, Appl	C 474	13.4	74.4	25175	3	US-09-949-016-16248	Sequence 16248, A
C 402	13.4	74.4	4094	3	US-10-007-747-29	Sequence 29, Appl	C 475	13.4	74.4	25175	3	US-09-949-016-16273	Sequence 16273, A
C 403	13.4	74.4	4094	3	US-09-945-901-29	Sequence 29, Appl	C 476	13.4	74.4	26016	3	US-09-326-480A-1	Sequence 1, Appl
C 404	13.4	74.4	4157	2	US-08-231-193A-25	Sequence 25, Appl	C 477	13.4	74.4	26016	3	US-09-949-016-17508	Sequence 17508, A
C 405	13.4	74.4	4157	2	US-08-486-273A-25	Sequence 25, Appl	C 478	13.4	74.4	28585	3	US-09-949-016-17311	Sequence 17311, A
C 406	13.4	74.4	4157	3	US-08-480-474-25	Sequence 25, Appl	C 479	13.4	74.4	28585	3	US-09-949-016-17311	Sequence 17311, A
C 407	13.4	74.4	4157	3	US-08-940-086A-25	Sequence 25, Appl	C 480	13.4	74.4	28802	3	US-09-949-016-14124	Sequence 14124, A
C 408	13.4	74.4	4157	3	US-08-940-035A-25	Sequence 25, Appl	C 481	13.4	74.4	29624	3	US-09-949-016-17062	Sequence 17062, A
C 409	13.4	74.4	4157	3	US-08-935-105A-25	Sequence 25, Appl	C 482	13.4	74.4	29624	3	US-09-949-016-12367	Sequence 12367, A
C 410	13.4	74.4	4157	3	US-09-648-797-25	Sequence 25, Appl	C 483	13.4	74.4	29763	3	US-09-949-016-13943	Sequence 13943, A
C 411	13.4	74.4	4157	3	US-09-386-123-25	Sequence 25, Appl	C 484	13.4	74.4	29930	3	US-09-949-016-12625	Sequence 12625, A
C 412	13.4	74.4	4157	3	US-10-038-937-25	Sequence 25, Appl	C 485	13.4	74.4	30868	3	US-09-949-016-15326	Sequence 15326, A
C 413	13.4	74.4	4157	3	US-10-007-747-25	Sequence 25, Appl	C 486	13.4	74.4	31444	3	US-09-949-016-13279	Sequence 13279, A
C 414	13.4	74.4	4157	3	US-09-945-901-25	Sequence 25, Appl	C 487	13.4	74.4	31718	3	US-09-973-278-787	Sequence 17532, A
C 415	13.4	74.4	4277	3	US-10-012-231A-57	Sequence 57, Appl	C 488	13.4	74.4	31718	3	US-09-973-278-788	Sequence 788, App
C 416	13.4	74.4	4277	3	US-10-015-389A-57	Sequence 57, Appl	C 489	13.4	74.4	33349	3	US-09-949-016-17399	Sequence 17399, A
C 417	13.4	74.4	4277	3	US-10-006-768A-57	Sequence 57, Appl	C 490	13.4	74.4	33349	3	US-09-949-016-17399	Sequence 17399, A
C 418	13.4	74.4	4277	3	US-10-015-671A-57	Sequence 57, Appl	C 491	13.4	74.4	34539	3	US-09-949-016-12226	Sequence 12226, A
C 419	13.4	74.4	4277	3	US-10-015-393A-57	Sequence 57, Appl	C 492	13.4	74.4	34540	3	US-09-949-016-13157	Sequence 13156, A
C 420	13.4	74.4	4277	3	US-10-011-833A-57	Sequence 57, Appl	C 493	13.4	74.4	36917	3	US-09-949-016-13197	Sequence 13197, A
C 421	13.4	74.4	4277	3	US-10-006-041A-57	Sequence 57, Appl	C 494	13.4	74.4	37385	3	US-09-949-016-15354	Sequence 15354, A
C 422	13.4	74.4	4277	3	US-10-012-064A-57	Sequence 57, Appl	C 495	13.4	74.4	38772	3	US-09-949-016-12382	Sequence 12382, A
C 423	13.4	74.4	4298	2	US-08-231-193A-1	Sequence 1, Appl	C 496	13.4	74.4	41199	3	US-09-949-016-12729	Sequence 12729, A
C 424	13.4	74.4	4298	2	US-08-486-273A-1	Sequence 1, Appl	C 497	13.4	74.4	42620	3	US-09-949-016-17689	Sequence 13879, A
C 425	13.4	74.4	4298	3	US-08-480-474-1	Sequence 1, Appl	C 498	13.4	74.4	43726	3	US-09-949-016-13879	Sequence 17578, A
C 426	13.4	74.4	4298	3	US-08-940-086A-1	Sequence 1, Appl	C 499	13.4	74.4	45546	3	US-09-146-053-6	Sequence 6, Appl
C 427	13.4	74.4	4298	3	US-08-940-035A-1	Sequence 1, Appl	C 500	13.4	74.4	47375	3	US-09-949-016-15420	Sequence 15420, A
C 428	13.4	74.4	4298	3	US-08-935-105A-1	Sequence 1, Appl	C 501	13.4	74.4	48471	3	US-09-949-016-16416	Sequence 16416, A
C 429	13.4	74.4	4298	3	US-09-648-797-1	Sequence 1, Appl	C 502	13.4	74.4	48471	3	US-09-949-016-16416	Sequence 12130, A
C 430	13.4	74.4	4298	3	US-09-386-123-1	Sequence 1, Appl	C 503	13.4	74.4	52789	3	US-09-949-016-12130	Sequence 16641, A
C 431	13.4	74.4	4298	3	US-10-038-937-1	Sequence 1, Appl	C 504	13.4	74.4	52790	3	US-09-949-016-16641	Sequence 16716, A
C 432	13.4	74.4	4298	3	US-10-007-747-1	Sequence 1, Appl	C 505	13.4	74.4	56374	3	US-09-949-002-645	Sequence 645, App
C 433	13.4	74.4	4298	3	US-09-945-901-1	Sequence 1, Appl	C 506	13.4	74.4	56374	3	US-09-949-002-774	Sequence 774, App
C 434	13.4	74.4	4361	2	US-08-231-193A-23	Sequence 23, Appl	C 507	13.4	74.4	59828	3	US-09-949-016-16238	Sequence 16238, A
C 435	13.4	74.4	4361	2	US-08-486-273A-23	Sequence 23, Appl	C 508	13.4	74.4	60276	3	US-09-949-016-15004	Sequence 15004, A
C 436	13.4	74.4	4361	3	US-08-940-086A-23	Sequence 23, Appl	C 509	13.4	74.4	60338	3	US-09-949-016-15694	Sequence 15694, A
C 437	13.4	74.4	4361	3	US-08-940-035A-23	Sequence 23, Appl	C 510	13.4	74.4	62804	3	US-09-800-960-3	Sequence 3, Appl
C 438	13.4	74.4	4361	3	US-08-935-105A-23	Sequence 23, Appl	C 511	13.4	74.4	62804	3	US-10-096-960-3	Sequence 3, Appl
C 439	13.4	74.4	4361	3	US-09-648-797-23	Sequence 23, Appl	C 512	13.4	74.4	62873	3	US-09-949-016-15676	Sequence 15676, A
C 440	13.4	74.4	4361	3	US-09-386-123-23	Sequence 23, Appl	C 513	13.4	74.4	66933	3	US-09-544-398B-11	Sequence 11, Appl
C 441	13.4	74.4	4361	3	US-10-038-937-23	Sequence 23, Appl	C 514	13.4	74.4	66933	3	US-09-543-771B-11	Sequence 11, Appl
C 442	13.4	74.4	4361	3	US-10-007-747-23	Sequence 23, Appl	C 515	13.4	74.4	70559	3	US-09-409-800B-1	Sequence 1, Appl
C 443	13.4	74.4	4361	3	US-09-945-901-23	Sequence 23, Appl	C 516	13.4	74.4	72049	3	US-09-544-398B-9	Sequence 9, Appl
C 444	13.4	74.4	4361	3	US-09-945-901-23	Sequence 23, Appl	C 517	13.4	74.4	72049	3	US-09-543-771B-9	Sequence 9, Appl
C 445	13.4	74.4	4531	3	US-09-949-016-1943	Sequence 1943, Ap	C 518	13.4	74.4	76962	3	US-09-949-016-17482	Sequence 17482, A
C 446	13.4	74.4	6006	3	US-09-949-002-590	Sequence 590, App	C 519	13.4	74.4	77994	3	US-09-949-016-12517	Sequence 12517, A
C 447	13.4	74.4	6007	3	US-09-949-002-827	Sequence 827, App	C 520	13.4	74.4	77994	3	US-09-949-016-16021	Sequence 16021, A
C 448	13.4	74.4	6317	2	US-08-920-812-21	Sequence 21, Appl	C 521	13.4	74.4	80706	3	US-09-949-016-15347	Sequence 15347, A
C 449	13.4	74.4	6317	2	US-08-920-827-21	Sequence 21, Appl	C 522	13.4	74.4	83665	3	US-09-949-016-16995	Sequence 16995, A
C 450	13.4	74.4	6317	2	US-08-921-177-21	Sequence 21, Appl	C 523	13.4	74.4	86639	3	US-09-949-016-17397	Sequence 17397, A
C 451	13.4	74.4	6317	2	US-08-362-577C-21	Sequence 21, Appl	C 524	13.4	74.4	86936	3	US-09-949-016-17314	Sequence 17314, A
C 452	13.4	74.4	6317	2	US-08-920-828-21	Sequence 21, Appl	C 525	13.4	74.4	87562	3	US-09-949-016-13685	Sequence 13685, A
C 453	13.4	74.4	6482	3	US-09-949-016-12960	Sequence 12960, A	C 526	13.4	74.4	88240	3	US-09-949-016-16279	Sequence 16279, A
C 454	13.4	74.4	6604	3	US-09-949-016-16725	Sequence 16725, A	C 527	13.4	74.4	90618	3	US-09-949-016-15964	Sequence 15964, A
C 455	13.4	74.4	6682	3	US-09-949-016-16898	Sequence 16898, A	C 528	13.4	74.4	95122	3	US-09-949-016-17235	Sequence 17235, A
C 456	13.4	74.4	6719	3	US-09-740-235-36	Sequence 36, Appl	C 529	13.4	74.4	10101	3	US-09-949-016-16933	Sequence 16933, A
C 457	13.4	74.4	8021	3	US-09-740-235-2	Sequence 2, Appl	C 530	13.4	74.4	104428	3	US-09-949-016-12737	Sequence 12737, A
C 458	13.4	74.4	8140	2	US-08-297-234A-1	Sequence 1, Appl	C 531	13.4	74.4	104429	3	US-09-949-016-13814	Sequence 13814, A
C 459	13.4	74.4	8405	3	US-09-949-016-11882	Sequence 11882, A	C 532	13.4	74.4	105210	3	US-09-949-016-14158	Sequence 14158, A
C 460	13.4	74.4	8405	3	US-09-949-016-15376	Sequence 15376, A	C 533	13.4	74.4	109159	3	US-09-949-016-14169	Sequence 14169, A
C 461	13.4	74.4	8848	3	US-09-949-016-14854	Sequence 14854, A	C 534	13.4	74.4	109159	3	US-09-949-016-14170	Sequence 14170, A
C 462	13.4	74.4	9293	3	US-09-949-016-16801	Sequence 16801, A	C 535	13.4	74.4	135667	3	US-09-949-016-15051	Sequence 15051, A

536	13.4	74.4	138282	3	US-09-949-016-15307	Sequence 15307, A	c 609	13.2	73.3	492	3	US-09-060-756-587	Sequence 587, App
537	13.4	74.4	140844	3	US-09-949-016-14199	Sequence 14199, A	c 610	13.2	73.3	492	3	US-09-670-314-587	Sequence 587, App
538	13.4	74.4	140840	3	US-09-949-016-15236	Sequence 15236, A	c 611	13.2	73.3	495	3	US-09-252-991A-12958	Sequence 12958, A
539	13.4	74.4	152486	3	US-09-949-016-12869	Sequence 12869, A	c 612	13.2	73.3	522	3	US-09-621-976-2854	Sequence 2854, App
540	13.4	74.4	157866	3	US-09-949-016-12982	Sequence 12982, A	c 613	13.2	73.3	560	3	US-09-854-133-301	Sequence 301, App
541	13.4	74.4	157866	3	US-09-949-016-12983	Sequence 12983, A	c 614	13.2	73.3	565	2	US-08-469-427A-4	Sequence 4, Appl1
542	13.4	74.4	157866	3	US-09-949-016-12986	Sequence 12984, A	c 615	13.2	73.3	565	2	US-08-609-443B-4	Sequence 4, Appl1
543	13.4	74.4	166698	3	US-09-949-016-16038	Sequence 16038, A	c 616	13.2	73.3	565	2	US-08-569-063C-4	Sequence 4, Appl1
544	13.4	74.4	174170	3	US-09-949-016-14911	Sequence 14810, A	c 617	13.2	73.3	565	2	US-08-851-896-4	Sequence 10, Appl1
545	13.4	74.4	174170	3	US-09-949-016-14911	Sequence 14811, A	c 618	13.2	73.3	570	2	US-08-469-427A-10	Sequence 10, Appl1
546	13.4	74.4	174318	3	US-09-949-016-11880	Sequence 11880, A	c 619	13.2	73.3	570	2	US-08-609-443B-10	Sequence 10, Appl1
547	13.4	74.4	174318	3	US-09-949-016-14812	Sequence 14812, A	c 620	13.2	73.3	570	2	US-08-569-063C-10	Sequence 10, Appl1
548	13.4	74.4	174318	3	US-09-949-016-14813	Sequence 14813, A	c 621	13.2	73.3	570	3	US-08-851-896-10	Sequence 10, Appl1
549	13.4	74.4	178883	3	US-09-949-016-12733	Sequence 12733, A	c 622	13.2	73.3	579	3	US-09-502-540-5469	Sequence 5469, App
550	13.4	74.4	178884	3	US-09-949-016-13039	Sequence 13039, A	c 623	13.2	73.3	591	2	US-08-469-427A-6	Sequence 6, Appl1
551	13.4	74.4	193303	3	US-09-497-855A-37	Sequence 37, Appl	c 624	13.2	73.3	591	2	US-08-609-443B-6	Sequence 6, Appl1
552	13.4	74.4	193303	3	US-09-497-855A-44	Sequence 44, Appl	c 625	13.2	73.3	591	2	US-08-569-063C-6	Sequence 6, Appl1
553	13.4	74.4	199471	3	US-09-949-016-14083	Sequence 14083, A	c 626	13.2	73.3	591	3	US-08-851-896-6	Sequence 6, Appl1
554	13.4	74.4	213456	3	US-09-820-007-3	Sequence 3, Appl1	c 627	13.2	73.3	601	3	US-09-949-016-18756	Sequence 18756, A
555	13.4	74.4	221958	3	US-09-949-016-12173	Sequence 12173, A	c 628	13.2	73.3	601	3	US-09-949-016-22050	Sequence 22050, A
556	13.4	74.4	221958	3	US-09-949-016-15498	Sequence 15498, A	c 629	13.2	73.3	601	3	US-09-949-016-30123	Sequence 30123, A
557	13.4	74.4	221966	3	US-09-949-016-16420	Sequence 16420, A	c 630	13.2	73.3	601	3	US-09-949-016-30123	Sequence 30123, A
558	13.4	74.4	237510	3	US-09-949-016-14273	Sequence 14273, A	c 631	13.2	73.3	601	3	US-09-949-016-34012	Sequence 34012, A
559	13.4	74.4	256171	3	US-09-949-016-12822	Sequence 12822, A	c 632	13.2	73.3	601	3	US-09-949-016-43956	Sequence 43956, A
560	13.4	74.4	256176	3	US-09-949-016-15224	Sequence 15224, A	c 633	13.2	73.3	601	3	US-09-949-016-43957	Sequence 43957, A
561	13.4	74.4	268449	3	US-09-949-016-17244	Sequence 17244, A	c 634	13.2	73.3	601	3	US-09-949-016-48675	Sequence 48675, A
562	13.4	74.4	323820	3	US-09-949-016-14139	Sequence 14139, A	c 635	13.2	73.3	601	3	US-09-949-016-50211	Sequence 50211, A
563	13.4	74.4	421893	3	US-09-949-016-12557	Sequence 12557, A	c 636	13.2	73.3	601	3	US-09-949-016-50212	Sequence 50212, A
564	13.4	74.4	536165	3	US-09-214-808-1	Sequence 1, Appl1	c 637	13.2	73.3	601	3	US-09-949-016-59514	Sequence 59514, A
565	13.4	74.4	670689	3	US-09-949-016-12505	Sequence 12505, A	c 638	13.2	73.3	601	3	US-09-949-016-67271	Sequence 67271, A
566	13.4	74.4	670690	3	US-09-949-016-14207	Sequence 14207, A	c 639	13.2	73.3	601	3	US-09-949-016-68869	Sequence 68869, A
567	13.4	74.4	784019	3	US-09-949-016-14033	Sequence 14033, A	c 640	13.2	73.3	601	3	US-09-949-016-68978	Sequence 68978, A
568	13.4	74.4	828152	3	US-09-949-016-12777	Sequence 12777, A	c 641	13.2	73.3	601	3	US-09-949-016-70145	Sequence 70145, A
569	13.4	74.4	4403765	3	US-09-103-840A-2	Sequence 2, Appl1	c 642	13.2	73.3	601	3	US-09-949-016-70146	Sequence 70146, A
570	13.4	74.4	4411529	3	US-09-103-840A-1	Sequence 1, Appl1	c 643	13.2	73.3	601	3	US-09-949-016-70147	Sequence 70147, A
571	13.2	73.3	28	3	US-09-595-684B-9	Sequence 9, Appl1	c 644	13.2	73.3	601	3	US-09-949-016-71108	Sequence 71108, A
572	13.2	73.3	39	3	US-08-857-534-7	Sequence 7, Appl1	c 645	13.2	73.3	601	3	US-09-949-016-71109	Sequence 71109, A
573	13.2	73.3	39	3	US-09-613-298-7	Sequence 7, Appl1	c 646	13.2	73.3	601	3	US-09-949-016-93116	Sequence 93116, A
574	13.2	73.3	39	6	PCT-US95-04971-7	Sequence 7, Appl1	c 647	13.2	73.3	601	3	US-09-949-016-93117	Sequence 93117, A
575	13.2	73.3	90	3	US-09-536-977-94	Sequence 94, Appl	c 648	13.2	73.3	601	3	US-09-949-016-93118	Sequence 93118, A
576	13.2	73.3	98	3	US-09-536-977-95	Sequence 95, Appl	c 649	13.2	73.3	601	3	US-09-949-016-93119	Sequence 93119, A
577	13.2	73.3	138	3	US-09-513-999C-21087	Sequence 21087, A	c 650	13.2	73.3	601	3	US-09-949-016-103784	Sequence 109784, A
578	13.2	73.3	177	3	US-09-313-294A-5168	Sequence 5168, App	c 651	13.2	73.3	601	3	US-09-949-016-117023	Sequence 117023, A
579	13.2	73.3	178	3	US-09-536-977-23	Sequence 23, Appl	c 652	13.2	73.3	601	3	US-09-949-016-126773	Sequence 126773, A
580	13.2	73.3	178	3	US-09-536-977-25	Sequence 25, Appl	c 653	13.2	73.3	601	3	US-09-949-016-126822	Sequence 126822, A
581	13.2	73.3	187	3	US-09-513-999C-33602	Sequence 33602, A	c 654	13.2	73.3	601	3	US-09-949-016-126871	Sequence 126871, A
582	13.2	73.3	198	3	US-09-902-540-8039	Sequence 8039, App	c 655	13.2	73.3	601	3	US-09-949-016-132898	Sequence 132898, A
583	13.2	73.3	207	3	US-08-857-534-16	Sequence 16, Appl	c 656	13.2	73.3	601	3	US-09-949-016-132917	Sequence 132917, A
584	13.2	73.3	207	3	PCT-US95-04971-16	Sequence 16, Appl	c 657	13.2	73.3	601	3	US-09-949-016-134406	Sequence 134406, A
585	13.2	73.3	207	6	US-08-957-534-15	Sequence 15, Appl	c 658	13.2	73.3	601	3	US-09-949-016-134455	Sequence 134455, A
586	13.2	73.3	222	3	US-09-513-999C-3273	Sequence 15, Appl	c 659	13.2	73.3	601	3	US-09-949-016-134504	Sequence 134504, A
587	13.2	73.3	222	3	US-09-613-298-15	Sequence 15, Appl	c 660	13.2	73.3	601	3	US-09-949-016-142478	Sequence 142478, A
588	13.2	73.3	222	6	PCT-US95-04971-15	Sequence 15, Appl	c 661	13.2	73.3	601	3	US-09-949-016-143561	Sequence 143561, A
589	13.2	73.3	255	3	US-09-302-540-7898	Sequence 7898, App	c 662	13.2	73.3	601	3	US-09-949-016-145274	Sequence 145274, A
590	13.2	73.3	285	3	US-09-252-991A-13951	Sequence 13951, A	c 663	13.2	73.3	601	3	US-09-949-016-165878	Sequence 165878, A
591	13.2	73.3	285	3	US-09-513-999C-3273	Sequence 13273, A	c 664	13.2	73.3	601	3	US-09-949-016-170195	Sequence 170195, A
592	13.2	73.3	285	3	US-09-302-540-1501	Sequence 1501, App	c 665	13.2	73.3	601	3	US-09-949-016-170196	Sequence 170196, A
593	13.2	73.3	322	3	US-09-270-767-19452	Sequence 19452, A	c 666	13.2	73.3	601	3	US-09-949-016-175780	Sequence 175780, A
594	13.2	73.3	322	3	US-09-513-999C-12614	Sequence 12614, A	c 667	13.2	73.3	601	3	US-09-949-016-175983	Sequence 175983, A
595	13.2	73.3	335	3	US-09-513-999C-21572	Sequence 21572, A	c 668	13.2	73.3	601	3	US-09-949-016-189951	Sequence 189951, A
596	13.2	73.3	346	3	US-09-513-999C-12777	Sequence 12777, A	c 669	13.2	73.3	601	3	US-09-949-016-198460	Sequence 198460, A
597	13.2	73.3	373	3	US-09-621-976-9198	Sequence 9198, App	c 670	13.2	73.3	601	3	US-09-949-016-198734	Sequence 198734, A
598	13.2	73.3	383	3	US-09-328-352-118	Sequence 118, App	c 671	13.2	73.3	601	3	US-09-949-016-200026	Sequence 200026, A
599	13.2	73.3	402	3	US-08-821-976-13269	Sequence 13269, A	c 672	13.2	73.3	601	3	US-09-949-016-201807	Sequence 201807, A
600	13.2	73.3	404	3	US-09-252-991A-13445	Sequence 13445, A	c 673	13.2	73.3	601	3	US-09-949-016-202561	Sequence 202561, A
601	13.2	73.3	438	3	US-09-621-976-8704	Sequence 8704, App	c 674	13.2	73.3	601	3	US-09-949-002-8841	Sequence 8841, App
602	13.2	73.3	447	3	US-09-621-976-3407	Sequence 3407, App	c 675	13.2	73.3	601	3	US-09-533-559-134	Sequence 134, App
603	13.2	73.3	459	3	US-09-949-016-3431	Sequence 3431, App	c 676	13.2	73.3	622	3	US-09-533-559-5647	Sequence 5647, App
604	13.2	73.3	478	3	US-09-270-767-266	Sequence 266, App	c 677	13.2	73.3	627	3	US-09-489-039A-3714	Sequence 3714, App
605	13.2	73.3	482	3	US-09-270-767-15548	Sequence 15548, A	c 678	13.2	73.3	647	3	US-09-536-977-65	Sequence 65, Appl1
606	13.2	73.3	482	3	US-09-621-976-2853	Sequence 2853, App	c 679	13.2	73.3	664	3	US-09-533-559-7336	Sequence 7336, App
607	13.2	73.3	483	3	US-09-302-540-2908	Sequence 2908, App	c 680	13.2	73.3	681	3	US-09-533-559-5596	Sequence 5596, App
608	13.2	73.3	486	3			c 681	13.2	73.3				

682	13.2	73.3	684	3	US-09-270-767-14558	Sequence 14558, A	755	13.2	73.3	1464	3	US-09-489-039A-4740	Sequence 4740, Ap
c 683	13.2	73.3	687	3	US-09-799-451-408	Sequence 408, App	c 756	13.2	73.3	1510	3	US-09-620-312D-142	Sequence 142, App
684	13.2	73.3	687	3	US-09-533-559-6759	Sequence 6759, Ap	757	13.2	73.3	1521	3	US-09-902-540-7920	Sequence 7920, Ap
685	13.2	73.3	716	3	US-08-857-534-17	Sequence 17, Appl	758	13.2	73.3	1528	3	US-09-949-016-1509	Sequence 1509, Ap
686	13.2	73.3	716	3	US-09-613-298-17	Sequence 17, Appl	759	13.2	73.3	1539	3	US-09-648-183-1	Sequence 1, Appl
687	13.2	73.3	716	6	PCT-US95-04971-17	Sequence 17, Appl	c 760	13.2	73.3	1539	3	US-09-648-183-2	Sequence 2, Appl
c 688	13.2	73.3	747	3	US-09-902-540-9131	Sequence 9131, Ap	c 761	13.2	73.3	1545	3	US-09-252-991A-5891	Sequence 5891, Ap
c 689	13.2	73.3	750	3	US-09-252-991A-13279	Sequence 13279, A	c 762	13.2	73.3	1556	3	US-09-252-991A-13740	Sequence 13740, A
c 690	13.2	73.3	783	3	US-09-489-019A-3722	Sequence 3722, Ap	763	13.2	73.3	1650	3	US-09-902-540-4686	Sequence 4686, Ap
c 691	13.2	73.3	798	3	US-09-536-977-61	Sequence 61, Appl	c 764	13.2	73.3	1686	3	US-09-775-046-14	Sequence 14, Appl
c 692	13.2	73.3	800	3	US-09-536-977-63	Sequence 63, Appl	c 765	13.2	73.3	1690	3	US-09-949-016-2723	Sequence 2723, Ap
693	13.2	73.3	807	3	US-09-442-013-3	Sequence 3, Appl	766	13.2	73.3	1728	3	US-09-171-461-29	Sequence 29, Appl
694	13.2	73.3	807	3	US-09-442-013-5	Sequence 5, Appl	767	13.2	73.3	1728	3	US-09-970-711-29	Sequence 29, Appl
695	13.2	73.3	819	3	US-09-252-991A-9983	Sequence 9983, Ap	768	13.2	73.3	1762	3	US-09-443-184-35	Sequence 35, Appl
c 696	13.2	73.3	834	3	US-09-252-991A-996	Sequence 996, App	769	13.2	73.3	1866	3	US-10-104-047-117	Sequence 117, App
c 697	13.2	73.3	838	3	US-09-288-143-28	Sequence 28, Appl	c 770	13.2	73.3	1918	3	US-09-536-977-67	Sequence 67, Appl
c 698	13.2	73.3	840	3	US-09-952-571-2	Sequence 2, Appl	c 771	13.2	73.3	1929	3	US-09-489-039A-3772	Sequence 3772, Ap
c 699	13.2	73.3	848	3	US-09-288-143-64	Sequence 64, Appl	c 772	13.2	73.3	1959	3	US-09-774-528-375	Sequence 375, App
c 700	13.2	73.3	886	2	US-08-469-427A-1	Sequence 1, Appl	c 773	13.2	73.3	1959	3	US-10-120-988-375	Sequence 375, App
c 701	13.2	73.3	886	2	US-08-609-443B-1	Sequence 1, Appl	c 774	13.2	73.3	2007	3	US-08-829-402-1	Sequence 1, Appl
c 702	13.2	73.3	886	2	US-08-569-063C-1	Sequence 1, Appl	c 775	13.2	73.3	2044	3	US-09-227-717-3	Sequence 3, Appl
c 703	13.2	73.3	886	3	US-08-851-896-1	Sequence 1, Appl	c 776	13.2	73.3	2064	3	US-10-104-047-196	Sequence 196, App
704	13.2	73.3	909	3	US-09-252-991A-13406	Sequence 13406, A	c 777	13.2	73.3	2071	3	US-09-536-977-69	Sequence 69, Appl
705	13.2	73.3	924	3	US-09-902-540-8540	Sequence 8540, Ap	c 778	13.2	73.3	2107	2	US-08-390-162-1	Sequence 1, Appl
706	13.2	73.3	940	3	US-09-023-655-667	Sequence 667, App	c 779	13.2	73.3	2107	2	US-08-685-945B-1	Sequence 1, Appl
c 707	13.2	73.3	942	3	US-09-252-991A-13610	Sequence 13610, A	c 780	13.2	73.3	2115	3	US-09-252-991A-952	Sequence 952, App
c 708	13.2	73.3	943	3	US-09-949-016-5282	Sequence 5282, Ap	c 781	13.2	73.3	2121	3	US-10-104-047-771	Sequence 771, App
709	13.2	73.3	958	3	US-09-442-013-7	Sequence 7, Appl	c 782	13.2	73.3	2163	3	US-09-252-991A-5310	Sequence 5310, Ap
710	13.2	73.3	978	3	US-09-775-398-23	Sequence 23, Appl	c 783	13.2	73.3	2180	3	US-09-876-594-107	Sequence 107, App
c 711	13.2	73.3	987	3	US-09-252-991A-15247	Sequence 15247, A	c 784	13.2	73.3	2233	3	US-09-949-016-820	Sequence 820, App
c 712	13.2	73.3	993	3	US-09-949-016-1425	Sequence 1425, Ap	c 785	13.2	73.3	2266	3	US-09-949-016-3028	Sequence 3028, Ap
c 713	13.2	73.3	1005	3	US-09-252-991A-5961	Sequence 5961, Ap	c 786	13.2	73.3	2333	3	US-10-104-047-13	Sequence 13, Appl
714	13.2	73.3	1018	2	US-08-444-083-6	Sequence 6, Appl	c 787	13.2	73.3	2337	3	US-10-104-047-1530	Sequence 1530, Ap
715	13.2	73.3	1018	2	US-08-286-304-6	Sequence 6, Appl	c 788	13.2	73.3	2400	3	US-08-930-001-1	Sequence 1, Appl
716	13.2	73.3	1018	2	US-08-442-745-6	Sequence 6, Appl	789	13.2	73.3	2400	3	US-09-091-885-1	Sequence 1, Appl
717	13.2	73.3	1018	2	US-08-443-129-6	Sequence 6, Appl	c 790	13.2	73.3	2416	3	US-09-620-312D-112	Sequence 112, App
718	13.2	73.3	1018	2	US-08-443-952-6	Sequence 6, Appl	c 791	13.2	73.3	2442	3	US-10-098-108-8	Sequence 8, Appl
719	13.2	73.3	1018	2	US-08-430-130-6	Sequence 6, Appl	792	13.2	73.3	2465	3	US-10-104-047-471	Sequence 471, App
720	13.2	73.3	1018	2	US-08-898-911-6	Sequence 6, Appl	c 793	13.2	73.3	2469	3	US-09-536-977-71	Sequence 71, Appl
721	13.2	73.3	1018	6	PCT-US95-04467-6	Sequence 6, Appl	c 794	13.2	73.3	2498	3	US-10-104-047-298	Sequence 298, App
722	13.2	73.3	1037	3	US-09-902-540-5876	Sequence 5876, Ap	c 795	13.2	73.3	2526	3	US-10-104-047-270	Sequence 270, App
c 723	13.2	73.3	1038	3	US-09-536-977-75	Sequence 75, Appl	c 796	13.2	73.3	2736	3	US-10-098-108-6	Sequence 6, Appl
724	13.2	73.3	1039	3	US-09-902-540-155	Sequence 155, App	c 797	13.2	73.3	2796	3	US-09-252-991A-5979	Sequence 5979, Ap
c 725	13.2	73.3	1046	3	US-09-949-016-2992	Sequence 2992, Ap	c 798	13.2	73.3	2814	3	US-10-104-047-991	Sequence 991, App
c 726	13.2	73.3	1066	3	US-09-664-249B-2	Sequence 2, Appl	799	13.2	73.3	2868	3	US-08-274-121B-1	Sequence 1, Appl
c 727	13.2	73.3	1066	3	US-09-762-027-2	Sequence 2, Appl	c 800	13.2	73.3	2955	3	US-09-328-352-2800	Sequence 2800, Ap
728	13.2	73.3	1098	3	US-09-902-540-5698	Sequence 5698, Ap	c 801	13.2	73.3	3008	3	US-09-188-930-65	Sequence 65, Appl
729	13.2	73.3	1103	3	US-09-991-181-249	Sequence 249, App	c 802	13.2	73.3	3008	3	US-09-312-283C-65	Sequence 65, Appl
730	13.2	73.3	1103	3	US-09-990-444-249	Sequence 249, App	c 803	13.2	73.3	3080	3	US-09-411-628-3	Sequence 3, Appl
731	13.2	73.3	1103	3	US-09-997-333-249	Sequence 249, App	c 804	13.2	73.3	3080	3	US-10-174-794-3	Sequence 3, Appl
732	13.2	73.3	1103	3	US-09-992-598-249	Sequence 249, App	c 805	13.2	73.3	3081	3	US-10-104-047-109	Sequence 109, App
733	13.2	73.3	1111	3	US-09-620-312D-797	Sequence 797, App	c 806	13.2	73.3	3121	3	US-10-033-301-6	Sequence 6, Appl
734	13.2	73.3	1121	3	US-08-857-534-11	Sequence 11, Appl	c 807	13.2	73.3	3138	3	US-09-252-991A-1090	Sequence 1090, Ap
735	13.2	73.3	1121	3	US-09-613-298-11	Sequence 11, Appl	c 808	13.2	73.3	3178	3	US-10-104-047-589	Sequence 989, App
736	13.2	73.3	1121	6	PCT-US95-04971-11	Sequence 11, Appl	c 809	13.2	73.3	3191	3	US-09-484-970B-117	Sequence 7, Appl
737	13.2	73.3	1126	3	US-08-857-534-9	Sequence 9, Appl	c 810	13.2	73.3	3258	3	US-09-595-424-7	Sequence 26, Appl
738	13.2	73.3	1126	3	US-09-613-298-9	Sequence 9, Appl	c 811	13.2	73.3	3258	3	US-09-595-684B-26	Sequence 26, Appl
739	13.2	73.3	1126	6	PCT-US95-04971-9	Sequence 9, Appl	c 812	13.2	73.3	3282	3	US-09-252-991A-5256	Sequence 5256, Ap
740	13.2	73.3	1128	3	US-09-270-767-14909	Sequence 14909, A	c 813	13.2	73.3	3310	3	US-09-949-016-4717	Sequence 4717, Ap
741	13.2	73.3	1143	3	US-09-540-236-913	Sequence 913, App	c 814	13.2	73.3	3323	3	US-09-949-016-687	Sequence 687, App
c 742	13.2	73.3	1143	3	US-09-902-540-8600	Sequence 8600, Ap	c 815	13.2	73.3	3359	3	US-09-556-002-4	Sequence 4, Appl
743	13.2	73.3	1146	3	US-08-911-853-26	Sequence 26, Appl	816	13.2	73.3	3833	3	US-08-917-320-18	Sequence 18, Appl
744	13.2	73.3	1146	3	US-09-479-409-26	Sequence 26, Appl	817	13.2	73.3	3833	6	PCT-US95-04611A-18	Sequence 18, Appl
745	13.2	73.3	1146	3	US-09-479-453-26	Sequence 26, Appl	818	13.2	73.3	3941	3	US-09-408-865-2	Sequence 2, Appl
746	13.2	73.3	1236	3	US-09-252-991A-14730	Sequence 14730, A	c 819	13.2	73.3	4076	3	US-09-949-016-4839	Sequence 4839, Ap
747	13.2	73.3	1266	3	US-09-902-540-5902	Sequence 5902, Ap	c 820	13.2	73.3	4079	3	US-09-016-434-1208	Sequence 1208, Ap
748	13.2	73.3	1278	3	US-09-252-991A-14612	Sequence 14612, A	c 821	13.2	73.3	4112	3	US-09-949-016-2541	Sequence 2541, Ap
749	13.2	73.3	1300	3	US-09-799-451-403	Sequence 403, App	c 822	13.2	73.3	4132	3	US-09-300-958A-10	Sequence 10, Appl
750	13.2	73.3	1323	3	US-09-902-540-5669	Sequence 5669, Ap	c 823	13.2	73.3	4158	3	US-09-252-991A-5348	Sequence 5348, Ap
751	13.2	73.3	1344	3	US-09-252-991A-15551	Sequence 15551, A	c 824	13.2	73.3	4163	3	US-09-949-016-748	Sequence 748, App
c 752	13.2	73.3	1405	2	US-08-390-162-3	Sequence 3, Appl	c 825	13.2	73.3	4204	3	US-09-023-655-1292	Sequence 1292, Ap
c 753	13.2	73.3	1405	2	US-08-685-945B-3	Sequence 3, Appl	c 826	13.2	73.3	4204	3	US-10-131-827-878	Sequence 878, Ap
754	13.2	73.3	1451	3	US-09-949-016-1267	Sequence 1267, Ap	c 827	13.2	73.3	4449	3	US-09-799-451-378	Sequence 378, App

828	13.2	73.3	4953	3	US-09-252-991A-5277	Sequence 5227, Ap	c 901	13.2	73.3	16738	3	US-09-949-016-12168	Sequence 12168, A
829	13.2	73.3	5006	2	US-08-485-588-2	Sequence 2, Appli	c 902	13.2	73.3	16738	3	US-09-949-016-14678	Sequence 14678, A
830	13.2	73.3	5006	2	US-08-484-565-2	Sequence 2, Appli	c 903	13.2	73.3	16742	3	US-09-949-016-12782	Sequence 12782, A
831	13.2	73.3	5006	2	US-08-480-751-2	Sequence 2, Appli	c 904	13.2	73.3	17041	2	US-08-076-011-1	Sequence 1, Appli
832	13.2	73.3	5006	2	US-08-943-986-2	Sequence 2, Appli	c 905	13.2	73.3	17136	3	US-09-453-702B-158	Sequence 158, App
833	13.2	73.3	5006	3	US-08-353-784-2	Sequence 2, Appli	c 906	13.2	73.3	17136	3	US-10-114-170-158	Sequence 158, App
834	13.2	73.3	5006	3	US-08-484-198-2	Sequence 2, Appli	c 907	13.2	73.3	17245	3	US-09-902-540-1073	Sequence 1073, Ap
835	13.2	73.3	5006	3	US-08-546-998-1	Sequence 1, Appli	c 908	13.2	73.3	17612	3	US-08-911-853-29	Sequence 29, Appl
836	13.2	73.3	5281	3	US-08-484-159-2	Sequence 2, Appli	c 909	13.2	73.3	17612	3	US-09-479-409-29	Sequence 29, Appl
837	13.2	73.3	5281	3	US-09-949-016-824	Sequence 824, App	c 910	13.2	73.3	17612	3	US-09-479-453-29	Sequence 29, Appl
838	13.2	73.3	5525	3	US-09-515-806-1	Sequence 1, Appli	c 911	13.2	73.3	17612	3	US-09-949-016-12392	Sequence 12392, A
839	13.2	73.3	5703	3	US-09-949-016-673	Sequence 673, App	c 912	13.2	73.3	17612	3	US-09-949-016-12392	Sequence 12392, A
840	13.2	73.3	5703	3	US-09-949-016-4012	Sequence 4012, Ap	c 913	13.2	73.3	18605	3	US-09-949-016-14465	Sequence 14465, Ap
841	13.2	73.3	5708	3	US-09-566-921-21	Sequence 21, Appl	c 914	13.2	73.3	20187	3	US-09-902-540-1186	Sequence 1186, Ap
842	13.2	73.3	5931	3	US-08-783-774-1	Sequence 1, Appli	c 915	13.2	73.3	20850	3	US-09-949-016-15789	Sequence 15789, A
843	13.2	73.3	5931	3	US-09-556-706B-1	Sequence 1, Appli	c 916	13.2	73.3	21688	3	US-09-949-016-11810	Sequence 11810, A
844	13.2	73.3	5931	3	US-09-724-418A-1	Sequence 1, Appli	c 917	13.2	73.3	21688	3	US-09-949-016-11810	Sequence 11810, A
845	13.2	73.3	6172	3	US-09-949-016-17421	Sequence 17421, A	c 918	13.2	73.3	21688	3	US-09-949-016-13529	Sequence 13529, A
846	13.2	73.3	6285	3	US-09-949-016-12815	Sequence 12815, A	c 919	13.2	73.3	23825	3	US-09-949-016-13336	Sequence 13336, A
847	13.2	73.3	6286	3	US-09-949-016-17179	Sequence 17179, A	c 920	13.2	73.3	23825	3	US-09-949-016-13336	Sequence 13336, A
848	13.2	73.3	6350	3	US-09-949-016-14473	Sequence 14473, A	c 921	13.2	73.3	24945	3	US-09-949-016-16255	Sequence 16255, A
849	13.2	73.3	6488	3	US-09-902-540-799	Sequence 799, App	c 922	13.2	73.3	25419	3	US-09-949-016-15476	Sequence 15476, A
850	13.2	73.3	6527	3	US-09-949-016-17087	Sequence 17087, A	c 923	13.2	73.3	25419	3	US-09-949-016-15476	Sequence 15476, A
851	13.2	73.3	6556	3	US-09-949-016-14734	Sequence 14734, A	c 924	13.2	73.3	25419	3	US-09-949-016-15476	Sequence 15476, A
852	13.2	73.3	6603	3	US-09-902-540-796	Sequence 796, App	c 925	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
853	13.2	73.3	6816	3	US-09-404-650-1	Sequence 1, Appli	c 926	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
854	13.2	73.3	6816	3	US-09-935-541-1	Sequence 1, Appli	c 927	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
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856	13.2	73.3	6821	3	US-09-902-540-907	Sequence 907, App	c 929	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
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870	13.2	73.3	8438	2	US-07-945-283-1	Sequence 1, Appli	c 943	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
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877	13.2	73.3	9714	3	US-09-949-016-17426	Sequence 17426, A	c 950	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
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881	13.2	73.3	10134	3	US-09-949-016-16668	Sequence 16668, A	c 954	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
882	13.2	73.3	10223	3	US-09-949-016-14500	Sequence 14500, A	c 955	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
883	13.2	73.3	10505	3	US-09-902-540-1044	Sequence 1044, Ap	c 956	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
884	13.2	73.3	10827	3	US-09-949-016-12297	Sequence 12297, A	c 957	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
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890	13.2	73.3	12438	3	US-09-949-016-16581	Sequence 16581, A	c 963	13.2	73.3	26454	3	US-09-949-016-16255	Sequence 16255, A
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974 13.2 73.3 109159 3 US-09-949-016-14170
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ALIGNMENTS

RESULT 1

US-10-085-612A-4
; Sequence 4, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburg, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085.612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612A-4

Query Match 91.1%; Score 16.4; DB 3; Length 1254;
Best Local Similarity 94.4%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18
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Db 691 GGGTCTGTCTGGCTGGC 708

RESULT 2

US-09-949-016-12300/c
; Sequence 12300, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

Sequence 14170, A
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Sequence 15845, A
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; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12300
; LENGTH: 14438
; TYPE: DNA
; ORGANISM: Human
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; NAME/KEY: misc feature
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; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12300

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Best Local Similarity 94.4%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 3

US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
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; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11863

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Best Local Similarity 94.4%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 4

US-09-949-016-12962
; Sequence 12962, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12962
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; TYPE: DNA
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US-09-949-016-12962

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Best Local Similarity 94.4%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 5
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; Sequence 14433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
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; SEQ ID NO 14433
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; ORGANISM: Human
; FEATURE:
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; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14433

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Best Local Similarity 94.4%; Pred. No. 1.7e+02;
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RESULT 6
US-09-991-725-18
; Sequence 18, Application US/09091725
; Patent No. 6329141
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Improved methods for transforming Phaffia
; TITLE OF INVENTION: and recombinant DNA for use therein
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster llp
; STREET: 2000 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: United States of America
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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; TITLE OF INVENTION: and recombinant DNA for use therein
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster llp
; STREET: 2000 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: United States of America
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/091,725
; FILING DATE: 23-DEC-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95203620.0
; FILING DATE: 22-DEC-1995
; APPLICATION NUMBER: EP 96200943.7
; FILING DATE: 11-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Victor Donahue
; REGISTRATION NUMBER: 35,492
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2470 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Phaffia rhodozyma
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 177..2198
; OTHER INFORMATION: /product= "PRcrty"
US-09-091-725-18

Query Match          85.6%; Score 15.4; DB 3; Length 2470;
Best Local Similarity 94.1%; Pred. No. 4.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 908 GGGTCTGCTGGCTGGC 924

RESULT 7
US-09-091-725-12
; Sequence 12, Application US/09091725
; Patent No. 6329141
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Improved methods for transforming Phaffia
; TITLE OF INVENTION: and recombinant DNA for use therein
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster llp
; STREET: 2000 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: United States of America
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/091,725
;; FILING DATE: 23-DEC-1996
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 95203620.0
;; FILING DATE: 22-DEC-1995
;; APPLICATION NUMBER: EP 96200943.7
;; FILING DATE: 11-APR-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: E. Victor Donahue
;; REGISTRATION NUMBER: 35,492
;; INFORMATION FOR SEQ ID NO: 12:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2546 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: double
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; ORIGINAL SOURCE:
;; ORGANISM: Phaffia rhodozyma
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 225..2246
;; OTHER INFORMATION: /product= "Prctb"
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US-09-091-725-12

Query Match 85.6%; Score 15.4; DB 3; Length 2546;
Best Local Similarity 94.1%; Pred. No. 4.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 956 GGGTCTGTCTGCCTGCG 972

RESULT 8
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match 85.6%; Score 15.4; DB 3; Length 4403765;
Best Local Similarity 94.1%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17
|||
Db 1427310 GGATCTGTCTGGCTGCG 1427326

RESULT 9
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 85.6%; Score 15.4; DB 3; Length 4411529;
Best Local Similarity 94.1%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17
|||
Db 1427843 GGATCTGTCTGGCTGCG 1427859

RESULT 10
US-09-949-016-179785
; Sequence 179785, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 179785
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-179785

Query Match 83.3%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGTCTGGCTGCG 16
|||
Db 18 GGTCTGTCTGGCTGCG 32

RESULT 11
US-09-949-016-187895
; Sequence 187895, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

```
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 187895
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-187895

Query Match      83.3%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15
Db 10 GGGTCTGCTGGCTG 24

RESULT 12
US-09-949-016-17024/c
; Sequence 17024, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17024
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17024

Query Match      83.3%; Score 15; DB 3; Length 29393;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGCTGGCTGC 16
Db 158 GGTCTGCTGGCTGC 144

RESULT 13
US-09-949-016-17117
; Sequence 17117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
```

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; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; CURRENT FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17117
; LENGTH: 43267
; TYPE: DNA
; ORGANISM: Human
; NAME/KEY: misc_feature
; LOCATION: (1)...(43267)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17117

Query Match      83.3%; Score 15; DB 3; Length 43267;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15
Db 20825 GGGTCTGCTGGCTG 20839

RESULT 14
US-09-949-016-16923
; Sequence 16923, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16923
; LENGTH: 390416
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16923

Query Match      83.3%; Score 15; DB 3; Length 390416;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGCTGGCTGC 16
Db 173246 GGTCTGCTGGCTGC 173260

RESULT 15
US-09-949-016-177364/c
; Sequence 177364, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
```



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; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 177364
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-177364

Query Match      82.2%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCGC 18
Db      274 GTGTCTGTCTGTCTGCGC 257

RESULT 16
US-09-949-002-2054/c
; Sequence 2054, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2054
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-2054

Query Match      82.2%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCGC 18
Db      180 GGGCTGTCTGTCTGCTGTC 163

RESULT 17
US-09-949-002-2055/c
; Sequence 2055, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2055
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-2055

Query Match      82.2%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCGC 18
Db      1021 GGTTCTATCTGTGGCTGCGC 1038

RESULT 18
US-09-533-559-1378
; Sequence 1378, Application US/09533559
; Patent No. 6902887
; GENERAL INFORMATION:
; APPLICANT: Randy M. Berka
; APPLICANT: Michael W. Rey
; APPLICANT: Jeffrey R. Shuster
; APPLICANT: Sakari Kauppinen
; APPLICANT: Ib Groth Clausen
; APPLICANT: Peter Bjarke Olsen
; TITLE OF INVENTION: Methods For Monitoring Multiple Gene
; TITLE OF INVENTION: Expression
; FILE REFERENCE: 5849.200-US
; CURRENT APPLICATION NUMBER: US/09/533,559
; CURRENT FILING DATE: 2000-03-22
; EARLIER APPLICATION NUMBER: 09/273,623
; EARLIER FILING DATE: 1999-03-22
; NUMBER OF SEQ ID NOS: 7860
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1378
; LENGTH: 1053
; TYPE: DNA
; ORGANISM: Fusarium venenatum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(1053)
; OTHER INFORMATION: n = A,T,C or G
US-09-533-559-1378

Query Match      82.2%; Score 14.8; DB 3; Length 1053;
Best Local Similarity 88.9%; Pred. No. 7.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCGC 18
Db      1021 GGTTCTATCTGTGGCTGCGC 1038

RESULT 19
US-09-215-131-3/c
; Sequence 3, Application US/09215131
; Patent No. 6030834
; GENERAL INFORMATION:
; APPLICANT: Chu, Keting
; APPLICANT: Pot, David
; TITLE OF INVENTION: IKK Beta Regulates Transcription Factors
; FILE REFERENCE: 1449.002
; CURRENT APPLICATION NUMBER: US/09/215,131
; CURRENT FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1055
; TYPE: DNA
; ORGANISM: human
US-09-215-131-3

Query Match      82.2%; Score 14.8; DB 3; Length 1055;
Best Local Similarity 88.9%; Pred. No. 7.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCGC 18
```

Db 157 GGGTCTGTAATGGCTGGCG 140

RESULT 20
US-09-222-734-3/c
; Sequence 3, Application US/09222734A
; Patent No. 6077701
; GENERAL INFORMATION:
; APPLICANT: Chu, Keting
; APPLICANT: Pot, David
; TITLE OF INVENTION: IKK-beta Regulates Transcription Factors
; FILE REFERENCE: 12441.78080
; CURRENT APPLICATION NUMBER: US/09/222,734A
; CURRENT FILING DATE: 1998-12-29
; EARLIER APPLICATION NUMBER: 09/215,131
; EARLIER FILING DATE: 1998-12-18
; EARLIER APPLICATION NUMBER: 60/068,954
; EARLIER FILING DATE: 1997-12-30
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 1055
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-222-734-3

Query Match 82.2%; Score 14.8; DB 3; Length 1055;
Best Local Similarity 88.9%; Pred. No. 7.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18
|||||
Db 157 GGGTCTGTAATGGCTGGCG 140

RESULT 21
US-10-104-047-920/c
; Sequence 920, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 920
; LENGTH: 2065
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-920

Query Match 82.2%; Score 14.8; DB 3; Length 2065;
Best Local Similarity 88.9%; Pred. No. 8.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18
|||||
Db 1290 GGGTCTGCTGGCTCCTC 1273

RESULT 22
US-09-902-540-7268/c
; Sequence 7268, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkie, Gregory J.
; APPLICANT: Slater, Steven C.

Db 157 GGGTCTGTAATGGCTGGCG 140

RESULT 23
US-09-555-790A-1/c
; Sequence 1, Application US/09555790A
; Patent No. 6555652
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo et al.
; TITLE OF INVENTION: TUMOR ANTIGEN PEPTIDE DERIVATIVES
; FILE REFERENCE: 0020-4716P
; CURRENT APPLICATION NUMBER: US/09/555,790A
; CURRENT FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (39)..(2438)
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (2439)..(2506)
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(38)
US-09-555-790A-1

Query Match 82.2%; Score 14.8; DB 3; Length 2527;
Best Local Similarity 88.9%; Pred. No. 8.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18
|||||
Db 301 GGGTCTGCTGGCTGGCG 284

RESULT 24
US-09-202-047A-1/c
; Sequence 1, Application US/09202047A
; Patent No. 6815531
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; APPLICANT: SHICHIO, Shigeki
; APPLICANT: IMAI, Yasuhisa
; TITLE OF INVENTION: TUMOR ANTIGEN PROTEINS, GENES THEREFOR, AND TUMOR
; TITLE OF INVENTION: ANTIGEN PEPTIDES
; FILE REFERENCE: 0020-4491P
; CURRENT APPLICATION NUMBER: US/09/202,047A
; CURRENT FILING DATE: 1998-12-07
; NUMBER OF SEQ ID NOS: 2

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(2527)
; OTHER INFORMATION: Strandedness: Double-stranded
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(38)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (39)..(2438)
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (2439)..(2506)
; FEATURE:
; NAME/KEY: polyA_site
; LOCATION: (2507)..(2527)
; US-09-202-047A-1
```

```
Query Match      82.2%; Score 14.8; DB 3; Length 2527;
Best Local Similarity 88.9%; Pred. No. 8.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 GGGTCTGTCTGGCTGGCGC 18
        ||||| ||||| |||||
Db      301 GGCTCGCCTGGCTGGCGC 284
```

RESULT 25

```
US-09-902-540-7563/c
; Sequence 7563, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7563
; LENGTH: 5244
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-7563
```

```
Query Match      82.2%; Score 14.8; DB 3; Length 5244;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 GGGTCTGTCTGGCTGGCGC 18
        ||||| ||||| |||||
Db      2890 GCGTCTGTCTGGCGCGC 2873
```

RESULT 26

```
US-09-902-540-738/c
; Sequence 738, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
```

```
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 738
; LENGTH: 6289
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-738
```

```
Query Match      82.2%; Score 14.8; DB 3; Length 6289;
Best Local Similarity 88.9%; Pred. No. 8.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 GGGTCTGTCTGGCTGGCGC 18
        ||||| ||||| |||||
Db      3930 GCGTCTGTCTGGCGCGC 3913
```

RESULT 27

```
US-09-902-540-1056/c
; Sequence 1056, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 1056
; LENGTH: 12299
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-1056
```

```
Query Match      82.2%; Score 14.8; DB 3; Length 12299;
Best Local Similarity 88.9%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 GGGTCTGTCTGGCTGGCGC 18
        ||||| ||||| |||||
Db      8294 GGGTCTCTCTCGCTGGCGC 8277
```

RESULT 28

```
US-09-949-002-622
; Sequence 622, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 622
; LENGTH: 27271
; TYPE: DNA
; ORGANISM: Human
; US-09-949-002-622
```



```

Db      59170 GGGTCTGTCTGGCTGGCGC 59187
      | ||||| ||||| |||||
      1 GGGTCTGTCTGGCTGGCGC 18
      ||||| ||||| |||||
      43297 GGGTTGTCTGTCTGGCGC 43314

RESULT 33
US-09-949-016-13725
; Sequence 13725, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13725
; LENGTH: 100468
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(100468)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13725

Query Match      82.2%; Score 14.8; DB 3; Length 100468;
Best Local Similarity 88.9%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGGCGC 18
      ||||| ||||| |||||
      59170 GGGTCTGTCTGGCTGGCGC 59187

RESULT 34
US-09-949-016-13945
; Sequence 13945, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13945
; LENGTH: 117391
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(117391)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13945

Query Match      82.2%; Score 14.8; DB 3; Length 117391;
Best Local Similarity 88.9%; Pred. No. 9.1e+02;

Db      59170 GGGTCTGTCTGGCTGGCGC 59187
      | ||||| ||||| |||||
      1 GGGTCTGTCTGGCTGGCGC 18
      ||||| ||||| |||||
      43297 GGGTTGTCTGTCTGGCGC 43314

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGGCGC 18
      ||||| ||||| |||||
      59170 GGGTCTGTCTGGCTGGCGC 59187

RESULT 35
US-09-949-002-730/c
; Sequence 730, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 730
; LENGTH: 131860
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-730

Query Match      82.2%; Score 14.8; DB 3; Length 131860;
Best Local Similarity 88.9%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGGCGC 18
      ||||| ||||| |||||
      59170 GGGTCTGTCTGGCTGGCGC 59187

RESULT 36
US-09-949-016-25536
; Sequence 25536, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25536
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-25536

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGGC 16
      ||||| ||||| |||||
      4 GGGTCTGTCTGGCTTC 19

RESULT 37
```

US-09-949-016-56117
; Sequence 56117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56117
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56117

Query Match 80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||
Db 331 GGGTCTGCTGGCTTC 346

RESULT 38
US-09-949-016-56118
; Sequence 56118, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56118
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56118

Query Match 80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||
Db 95 GGGTCTGCTGGCTTC 110

RESULT 39
US-09-949-016-56119
; Sequence 56119, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56119
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56119

Query Match 80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||
Db 47 GGGTCTGCTGGCTTC 62

RESULT 40
US-09-949-016-59435
; Sequence 59435, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59435
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-59435

Query Match 80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||
Db 4 GGGTCTGCTGGCTTC 19

RESULT 41
US-09-949-016-134147/C
; Sequence 134147, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14

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; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134147
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-134147

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCG 17
Db      513 GGTCTGTCTGGCAGCG 498

RESULT 42
US-09-949-016-134148/c
; Sequence 134148, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134148
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-134148

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCG 17
Db      136 GGTCTGTCTGGCAGCG 121

RESULT 43
US-08-374-077C-1/c
; Sequence 1, Application US/08374077C
; Patent No. 6027912
; GENERAL INFORMATION:
; APPLICANT: Ren, Dejian
; APPLICANT: Zheng, Wei
; APPLICANT: Dubald, Manuel Marcel Paul
; TITLE OF INVENTION: Genes Encoding an Invertebrate Alpha
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: 699 Prince Street
; CITY: Alexandria
```

```
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/374,077C
; FILING DATE: 19-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm M.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 022650-264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8075 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 157..7704
; US-08-374-077C-1

Query Match      80.0%; Score 14.4; DB 3; Length 8075;
Best Local Similarity 93.8%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCG 17
Db      1928 GGTCTGTCTGGTTGCG 1913

RESULT 44
US-08-895-590-1/c
; Sequence 1, Application US/08895590
; Patent No. 6207410
; GENERAL INFORMATION:
; APPLICANT: Hall, Linda M.
; APPLICANT: Ren, Dejian
; APPLICANT: Zheng, Wei
; APPLICANT: Dubald, Manuel Marcel Paul
; TITLE OF INVENTION: Genes Encoding an Insect Calcium Channel
; NUMBER OF SEQUENCES: 101
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: 699 Prince Street
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/895,590
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/374,888
; FILING DATE: 19-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm M.
; REGISTRATION NUMBER: 39,300
```



```
; REFERENCE/DOCKET NUMBER: 022650-263
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8075 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 157..7704
;
US-08-895-590-1
;
Query Match      80.0%; Score 14.4; DB 3; Length 8075;
Best Local Similarity 93.8%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCGTGGCTGCG 17
Db      1928 GGTCTGTCGTGGCTGCG 1913

RESULT 45
US-09-539-879A-1/c
; Sequence 1, Application US/09539879A
; Patent No. 6436627
; GENERAL INFORMATION:
; APPLICANT: Hall, Linda M.
;              Ren, Dejian
;              Dubald, Manuel Marcel Paul
;              Zheng, Wei
; TITLE OF INVENTION: Genes Encoding an Invertebrate Alpha
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: 699 Prince Street
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 31-Mar-2000
; APPLICATION NUMBER: US/09/539,879A
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/111,865
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 08/374,077
; FILING DATE: 19-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm M.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 022650-264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8075 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:

; NAME/KEY: CDS
; LOCATION: 157..7704
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-539-879A-1
Query Match      80.0%; Score 14.4; DB 3; Length 8075;
Best Local Similarity 93.8%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCGTGGCTGCG 17
Db      1928 GGTCTGTCGTGGCTGCG 1913

RESULT 46
US-09-949-016-12123/c
; Sequence 12123, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12123
; LENGTH: 17730
; TYPE: DNA
; ORGANISM: Human
;
US-09-949-016-12123
Query Match      80.0%; Score 14.4; DB 3; Length 17730;
Best Local Similarity 93.8%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGTCTGTCGTGGCTGC 16
Db      15794 GGTCTGTCGTGGCTTC 15779

RESULT 47
US-09-949-016-13472/c
; Sequence 13472, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13472
; LENGTH: 17731
; TYPE: DNA
; ORGANISM: Human
;
US-09-949-016-13472
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Query Match 80.0%; Score 14.4; DB 3; Length 17731;
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
 Db 15794 GGGTCTGTCTGGCTTC 15779

RESULT 48
 US-09-849-334-3/c
 ; Sequence 3, Application US/09849334
 ; Patent No. 6500655
 ; GENERAL INFORMATION:
 ; APPLICANT: RUSCH, Douglas et al
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 ; FILE REFERENCE: CL001099-CIP
 ; CURRENT APPLICATION NUMBER: US/09/849,334
 ; CURRENT FILING DATE: 2001-05-07
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 19025
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-849-334-3

Query Match 80.0%; Score 14.4; DB 3; Length 19025;
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
 Db 16480 GGGTGTGTCTGGCTGC 16465

RESULT 49
 US-10-274-878-3/c
 ; Sequence 3, Application US/10274878
 ; Patent No. 6670163
 ; GENERAL INFORMATION:
 ; APPLICANT: RUSCH, Douglas et al
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 ; FILE REFERENCE: CL001099-CIP-DIV
 ; CURRENT APPLICATION NUMBER: US/10/274,878
 ; CURRENT FILING DATE: 2002-10-22
 ; PRIOR APPLICATION NUMBER: 09/849,334
 ; PRIOR FILING DATE: 2001-05-07
 ; PRIOR FILING DATE: 2001-02-01
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 19025
 ; TYPE: DNA
 ; ORGANISM: Human
 US-10-274-878-3

Query Match 80.0%; Score 14.4; DB 3; Length 19025;
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
 Db 16480 GGGTGTGTCTGGCTGC 16465

RESULT 50
 US-10-697-266-3/c

; Sequence 3, Application US/10697266
 ; Patent No. 6830912
 ; GENERAL INFORMATION:
 ; APPLICANT: RUSCH, Douglas et al
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 ; FILE REFERENCE: CL001099-CIP-DIV2
 ; CURRENT APPLICATION NUMBER: US/10/697,266
 ; CURRENT FILING DATE: 2003-10-31
 ; PRIOR APPLICATION NUMBER: 10/274,878
 ; PRIOR FILING DATE: 2002-10-22
 ; PRIOR APPLICATION NUMBER: 09/849,334
 ; PRIOR FILING DATE: 2001-05-07
 ; PRIOR APPLICATION NUMBER: 09/773,371
 ; PRIOR FILING DATE: 2001-02-01
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 19025
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-697-266-3

Query Match 80.0%; Score 14.4; DB 3; Length 19025;
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
 Db 16480 GGGTGTGTCTGGCTGC 16465

Search completed: January 10, 2006, 23:11:39
 Job time : 109.159 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 344.364 Seconds
(without alignments)
432.243 Million cell updates/sec

Title: US-09-869-169C-11

Perfect score: 18

Sequence: 1 99gtctgtctggctgcgc 18

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Published Applications_NA_Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	16.4	91.1	1254	5	US-10-085-612-4 Sequence 4, Appli
2	16.4	91.1	2214	4	US-09-925-065A-675137 Sequence 675137,
3	16.4	91.1	177531	8	US-10-484-577-660 Sequence 660, App
4	16	88.9	360	9	US-10-501-282-1203 Sequence 1203, Ap
5	16	88.9	483	9	US-10-501-282-1201 Sequence 1201, Ap
6	16	88.9	1065	9	US-10-501-282-1209 Sequence 1209, Ap
7	16	88.9	1065	9	US-10-501-282-1211 Sequence 1211, Ap
8	16	88.9	1754382	9	US-10-501-282-6651 Sequence 6651, Ap
9	15.4	85.6	662	4	US-09-925-065A-81543 Sequence 81543, A
10	15.4	85.6	913	5	US-10-027-632-168189 Sequence 168189,
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15	15.4	85.6	1896	7	US-10-282-122A-31757 Sequence 31757, A
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21	15.4	85.6	4134	8	US-10-749-104-21 Sequence 21, Appl
22	15.4	85.6	4281	8	US-10-749-104-23 Sequence 23, Appl
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C 98	14.8	82.2	1845	4	US-09-925-065A-709245	Sequence 709245,	171	14.4	80.0	573	4	US-09-925-065A-219124	Sequence 219124,
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C 102	14.8	82.2	2405	7	US-10-206-618-10	Sequence 10, Appl	175	14.4	80.0	587	4	US-09-925-065A-233983	Sequence 233983,
C 103	14.8	82.2	2405	7	US-10-206-618-11	Sequence 11, Appl	176	14.4	80.0	589	4	US-09-925-065A-137590	Sequence 137590,
C 104	14.8	82.2	2468	4	US-09-925-065A-676519	Sequence 676519,	177	14.4	80.0	589	4	US-09-925-065A-137591	Sequence 137591,
C 105	14.8	82.2	2468	4	US-09-925-065A-676520	Sequence 676520,	178	14.4	80.0	589	4	US-09-925-065A-137592	Sequence 137592,
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C 107	14.8	82.2	2550	9	US-10-939-539-105	Sequence 105, App	c 180	14.4	80.0	595	4	US-09-925-065A-747327	Sequence 747327,
C 108	14.8	82.2	2605	6	US-10-094-749-1631	Sequence 1631, Ap	181	14.4	80.0	596	4	US-09-925-065A-845034	Sequence 845034,
C 109	14.8	82.2	2703	6	US-10-369-493-32635	Sequence 32635, A	c 182	14.4	80.0	598	4	US-09-925-065A-71010	Sequence 71010,
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C 113	14.8	82.2	2919	8	US-10-669-176-11	Sequence 11, Appl	186	14.4	80.0	600	9	US-10-972-079-86514	Sequence 86514, A
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C 115	14.8	82.2	3030	3	US-09-972-211-43	Sequence 43, Appl	188	14.4	80.0	600	9	US-10-972-079-86516	Sequence 86516, A
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C 118	14.8	82.2	3432	3	US-09-972-211-41	Sequence 41, Appl	c 191	14.4	80.0	605	4	US-09-925-065A-284675	Sequence 284675,
C 119	14.8	82.2	3432	7	US-10-096-625-41	Sequence 41, Appl	c 192	14.4	80.0	605	4	US-09-925-065A-284676	Sequence 284676,
C 120	14.8	82.2	3583	7	US-10-236-392-203	Sequence 209, App	c 193	14.4	80.0	638	4	US-09-925-065A-718441	Sequence 718441,
C 121	14.8	82.2	3595	7	US-10-236-392-203	Sequence 203, App	c 194	14.4	80.0	644	4	US-09-925-065A-718441	Sequence 718441,
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C 131	14.8	82.2	23713	9	US-10-936-273-13	Sequence 13, Appl	c 204	14.4	80.0	802	5	US-10-027-632-162529	Sequence 162529,
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C 166	14.4	80.0	511	7	US-10-425-114-3341	Sequence 3341, Ap	c 239	14.4	80.0	8984	10	US-11-097-143-34579	Sequence 34579, A
C 167	14.4	80.0	513	9	US-10-756-149-3109	Sequence 3109, Ap	c 240	14.4	80.0	12043	3	US-09-979-593-1	Sequence 1, Appli
C 168	14.4	80.0	516	8	US-10-425-115-104775	Sequence 104775,	c 241	14.4	80.0	12043	3	US-09-979-593-1	Sequence 59, Appl
C 169	14.4	80.0	562	4	US-09-925-065A-219123	Sequence 219123,	c 242	14.4	80.0	12438	6	US-10-074-024-773	Sequence 773, App

243	14.4	80.0	12683	6	US-10-242-355-703	Sequence 703, App	c 316	14	77.8	921	3	US-09-735-713A-1	Sequence 1, Appli
244	14.4	80.0	12744	6	US-10-242-355-702	Sequence 702, App	c 317	14	77.8	921	8	US-10-487-462-3	Sequence 3, Appli
245	14.4	80.0	18657	5	US-10-074-045-70	Sequence 70, Appl	c 318	14	77.8	921	9	US-10-889-890-1	Sequence 1, Appli
246	14.4	80.0	18861	3	US-09-384-429-513	Sequence 513, App	c 319	14	77.8	1035	6	US-10-104-271-12	Sequence 12, Appl
247	14.4	80.0	19025	5	US-10-274-878-3	Sequence 3, Appli	c 320	14	77.8	1185	6	US-10-369-493-32909	Sequence 32909, A
248	14.4	80.0	19025	7	US-10-697-266-3	Sequence 3, Appli	c 321	14	77.8	1262	7	US-10-311-035-41	Sequence 41, Appl
249	14.4	80.0	20130	10	US-11-097-143-34510	Sequence 34510, A	c 322	14	77.8	1262	7	US-10-311-035-41	Sequence 41, Appl
250	14.4	80.0	21857	10	US-11-097-143-10018	Sequence 10018, A	c 323	14	77.8	1356	4	US-09-925-065A-386	Sequence 386, App
251	14.4	80.0	27185	8	US-10-741-600-18005	Sequence 18005, A	c 324	14	77.8	1358	4	US-09-925-065A-72986	Sequence 72986, A
252	14.4	80.0	28562	5	US-10-087-192-211	Sequence 211, App	c 325	14	77.8	1496	9	US-10-956-157-5138	Sequence 5138, Ap
253	14.4	80.0	28974	6	US-10-074-024-775	Sequence 775, App	c 326	14	77.8	1568	3	US-09-735-713A-7	Sequence 7, Appli
254	14.4	80.0	32351	7	US-10-322-696-40	Sequence 40, Appl	c 327	14	77.8	1568	9	US-10-889-890-7	Sequence 7, Appli
255	14.4	80.0	44950	7	US-10-052-482-217	Sequence 217, App	c 328	14	77.8	1611	5	US-10-027-632-252601	Sequence 252601, A
256	14.4	80.0	49031	7	US-10-322-281-5233	Sequence 523, App	c 329	14	77.8	1611	6	US-10-027-632-252601	Sequence 252601, A
257	14.4	80.0	60316	8	US-10-719-993-6833	Sequence 6833, App	c 330	14	77.8	1671	3	US-09-888-615-47	Sequence 47, Appl
258	14.4	80.0	81199	5	US-10-087-192-1150	Sequence 1150, App	c 331	14	77.8	2212	5	US-10-044-090-717	Sequence 717, App
259	14.4	80.0	98716	8	US-10-741-600-17754	Sequence 17754, A	c 332	14	77.8	2357	6	US-10-108-260A-87	Sequence 87, Appl
260	14.4	80.0	113000	6	US-10-376-566-16	Sequence 16, Appl	c 333	14	77.8	2357	10	US-11-097-143-38605	Sequence 38605, A
261	14.4	80.0	135259	7	US-10-240-425-1585	Sequence 1585, App	c 334	14	77.8	2699	6	US-10-104-047-430	Sequence 430, App
262	14.4	80.0	142976	7	US-10-367-094-99	Sequence 99, Appl	c 335	14	77.8	6317	9	US-10-826-448-3	Sequence 3, Appli
263	14.4	80.0	159095	6	US-10-017-128-3	Sequence 3, Appli	c 336	14	77.8	11366	6	US-10-085-959-39	Sequence 39, Appl
264	14.4	80.0	191395	6	US-10-235-192A-45	Sequence 45, Appl	c 337	14	77.8	11371	6	US-10-238-075-1096	Sequence 1096, Ap
265	14.4	80.0	198161	8	US-10-775-169-52	Sequence 52, Appl	c 338	14	77.8	39000	3	US-09-957-956-5	Sequence 5, Appli
266	14.4	80.0	198161	8	US-10-723-860-165	Sequence 165, App	c 339	14	77.8	39000	9	US-10-642-946-5	Sequence 5, Appli
267	14.4	80.0	230093	8	US-10-719-993-6861	Sequence 6861, App	c 340	14	77.8	41684	6	US-10-376-893-1	Sequence 1, Appli
268	14.4	80.0	268685	6	US-10-265-071-22	Sequence 22, Appl	c 341	14	77.8	60332	5	US-10-222-334-7	Sequence 7, Appli
269	14.4	80.0	289190	7	US-10-322-281-115	Sequence 115, App	c 342	14	77.8	80322	8	US-10-087-192-1069	Sequence 1069, Ap
270	14.4	80.0	302603	7	US-10-271-416-8	Sequence 8, Appli	c 343	14	77.8	96597	7	US-10-052-482-7	Sequence 7, Appli
271	14.4	80.0	302603	3	US-09-768-185A-1	Sequence 1, Appli	c 344	14	77.8	185035	9	US-10-723-860-3104	Sequence 3104, Ap
272	14.4	80.0	325791	3	US-10-741-600-17796	Sequence 17796, A	c 345	14	77.8	185035	9	US-10-756-149-2896	Sequence 2896, Ap
273	14.4	80.0	385320	8	US-10-027-632-53064	Sequence 53064, A	c 346	14	77.8	347001	7	US-10-319-908-16	Sequence 16, Appl
274	14.4	80.0	1601042	5	US-10-027-632-53064	Sequence 53064, A	c 347	13.8	76.7	20	6	US-10-302-279-40	Sequence 40, Appl
275	14.4	80.0	1601042	6	US-10-027-632-53064	Sequence 53064, A	c 348	13.8	76.7	20	6	US-10-160-497-69	Sequence 69, Appl
276	14.4	80.0	3309400	3	US-09-738-626-1	Sequence 1, Appli	c 349	13.8	76.7	20	6	US-10-348-750-69	Sequence 69, Appl
277	14	77.8	25	7	US-10-719-956-209230	Sequence 209230, App	c 350	13.8	76.7	20	9	US-10-991-147-69	Sequence 69, Appl
278	14	77.8	28	6	US-10-104-271-19	Sequence 19, Appl	c 351	13.8	76.7	20	9	US-10-257-158A-7513	Sequence 7513, Ap
279	14	77.8	28	6	US-10-104-271-9	Sequence 9, Appl	c 352	13.8	76.7	23	10	US-11-069-208-10	Sequence 10, Appl
280	14	77.8	135	3	US-09-864-761-32507	Sequence 32507, A	c 353	13.8	76.7	23	10	US-11-069-208-11	Sequence 11, Appl
281	14	77.8	220	6	US-10-029-386-15521	Sequence 15521, A	c 354	13.8	76.7	24	9	US-10-257-158A-2880	Sequence 2880, App
282	14	77.8	364	3	US-09-864-761-16004	Sequence 16004, A	c 355	13.8	76.7	25	7	US-10-719-956-6607	Sequence 6607, Ap
283	14	77.8	411	3	US-09-983-965-2504	Sequence 2504, App	c 356	13.8	76.7	25	7	US-10-719-956-149566	Sequence 149566, A
284	14	77.8	491	8	US-10-425-115-36840	Sequence 36840, App	c 357	13.8	76.7	25	7	US-10-719-956-156077	Sequence 156077, A
285	14	77.8	497	3	US-09-918-995-31144	Sequence 31144, A	c 358	13.8	76.7	25	7	US-10-719-956-572531	Sequence 572531, A
286	14	77.8	549	4	US-09-925-065A-419067	Sequence 419067, A	c 359	13.8	76.7	25	8	US-10-719-900-604336	Sequence 604336, A
287	14	77.8	549	6	US-09-925-065A-419068	Sequence 419068, A	c 360	13.8	76.7	25	10	US-11-036-317-532270	Sequence 532270, A
288	14	77.8	551	6	US-10-029-386-1821	Sequence 1821, App	c 361	13.8	76.7	25	10	US-11-036-317-58912	Sequence 58912, A
289	14	77.8	568	4	US-09-925-065A-530133	Sequence 530133, A	c 362	13.8	76.7	25	10	US-11-036-317-605960	Sequence 605960, A
290	14	77.8	588	4	US-09-925-065A-487905	Sequence 487905, A	c 363	13.8	76.7	25	10	US-11-036-317-718257	Sequence 718257, A
291	14	77.8	589	4	US-09-925-065A-874512	Sequence 874512, A	c 364	13.8	76.7	25	10	US-11-036-317-808346	Sequence 808346, A
292	14	77.8	595	6	US-09-925-065A-514816	Sequence 514816, A	c 365	13.8	76.7	25	10	US-11-036-317-904269	Sequence 904269, A
293	14	77.8	595	6	US-10-029-386-5455	Sequence 5455, App	c 366	13.8	76.7	25	10	US-11-036-317-909704	Sequence 909704, A
294	14	77.8	600	5	US-10-027-632-286805	Sequence 286805, A	c 367	13.8	76.7	25	10	US-11-036-317-915837	Sequence 915837, A
295	14	77.8	604	5	US-10-027-632-286805	Sequence 286805, A	c 368	13.8	76.7	25	10	US-09-864-761-23828	Sequence 23828, A
296	14	77.8	604	5	US-10-027-632-110212	Sequence 110212, A	c 369	13.8	76.7	201	8	US-10-719-993-42176	Sequence 42176, A
297	14	77.8	604	6	US-10-027-632-110212	Sequence 110212, A	c 370	13.8	76.7	201	8	US-10-719-993-42178	Sequence 42178, A
298	14	77.8	632	6	US-10-252-157-439	Sequence 439, App	c 371	13.8	76.7	201	8	US-10-719-993-42178	Sequence 42178, A
299	14	77.8	641	5	US-10-027-632-74923	Sequence 74923, A	c 372	13.8	76.7	212	8	US-10-741-600-64738	Sequence 64738, A
300	14	77.8	641	5	US-10-027-632-313442	Sequence 313442, A	c 373	13.8	76.7	212	8	US-10-425-115-17152	Sequence 17152, A
301	14	77.8	641	6	US-10-027-632-74923	Sequence 74923, A	c 374	13.8	76.7	212	8	US-10-674-124A-9592	Sequence 9592, App
302	14	77.8	641	6	US-10-027-632-313442	Sequence 313442, A	c 375	13.8	76.7	212	8	US-10-425-115-168097	Sequence 168097, A
303	14	77.8	654	6	US-10-238-075-1103	Sequence 1103, App	c 376	13.8	76.7	242	8	US-10-425-115-11182	Sequence 11182, A
304	14	77.8	654	6	US-10-238-075-1103	Sequence 1103, App	c 377	13.8	76.7	268	8	US-10-425-115-134491	Sequence 134491, A
305	14	77.8	696	4	US-09-925-065A-57100	Sequence 57100, A	c 378	13.8	76.7	271	3	US-09-880-107-2482	Sequence 2482, Ap
306	14	77.8	727	6	US-09-925-065A-920123	Sequence 920123, A	c 379	13.8	76.7	305	8	US-10-425-115-134306	Sequence 134306, A
307	14	77.8	766	6	US-10-104-271-5	Sequence 5, Appli	c 380	13.8	76.7	311	8	US-10-425-115-43962	Sequence 43962, A
308	14	77.8	806	5	US-10-027-632-153490	Sequence 153490, A	c 381	13.8	76.7	328	7	US-10-719-993-42176	Sequence 37784, A
309	14	77.8	806	5	US-10-027-632-153491	Sequence 153491, A	c 382	13.8	76.7	328	7	US-10-424-599-37784	Sequence 5014, Ap
310	14	77.8	806	6	US-10-027-632-153490	Sequence 153490, A	c 383	13.8	76.7	367	8	US-10-674-124A-5014	Sequence 79824, A
311	14	77.8	806	6	US-10-027-632-153491	Sequence 153491, A	c 384	13.8	76.7	374	8	US-10-425-115-79824	Sequence 79824, A
312	14	77.8	866	5	US-10-037-270-682	Sequence 682, App	c 385	13.8	76.7	374	8	US-10-425-115-79824	Sequence 16566, A
313	14	77.8	866	9	US-10-117-722-682	Sequence 682, App	c 386	13.8	76.7	382	3	US-10-029-386-16566	Sequence 378, App
314	14	77.8	866	9	US-10-122-851-682	Sequence 682, App	c 387	13.8	76.7	386	6	US-10-029-386-21160	Sequence 21160, A
315	14	77.8	909	3	US-09-735-713A-3	Sequence 3, Appli	c 388	13.8	76.7	386	6	US-10-674-124A-20317	Sequence 20317, A
	14	77.8	909	9	US-10-889-890-3	Sequence 3, Appli	c 389	13.8	76.7	387	8	US-10-425-115-146240	Sequence 146240, A
	14	77.8	909	9	US-10-889-890-3	Sequence 3, Appli	c 390	13.8	76.7	395	7	US-10-424-599-35992	Sequence 35992, A

C 389	13.8	76.7	396	8	US-10-425-115-43804	Sequence 43804, A	462	13.8	76.7	590	7	US-10-276-774-1201	Sequence 1201, Ap
C 390	13.8	76.7	405	9	US-10-450-763-981	Sequence 981, App	C 463	13.8	76.7	596	6	US-10-029-386-7460	Sequence 7460, Ap
C 391	13.8	76.7	408	8	US-10-723-860-2742	Sequence 2742, Ap	C 464	13.8	76.7	598	5	US-10-027-632-199557	Sequence 199557, A
C 392	13.8	76.7	408	9	US-10-756-149-2526	Sequence 2526, Ap	C 465	13.8	76.7	598	6	US-10-027-632-199557	Sequence 199557, A
C 393	13.8	76.7	411	3	US-09-922-293-377	Sequence 377, App	C 466	13.8	76.7	598	7	US-10-767-701-20737	Sequence 20737, A
C 394	13.8	76.7	412	3	US-09-960-352-12815	Sequence 12815, A	C 467	13.8	76.7	599	6	US-10-029-386-2866	Sequence 2866, Ap
C 395	13.8	76.7	415	3	US-09-920-300A-102	Sequence 102, App	C 468	13.8	76.7	599	9	US-10-972-079-92667	Sequence 92667, A
C 396	13.8	76.7	415	3	US-10-033-528-102	Sequence 102, App	C 469	13.8	76.7	599	9	US-10-972-079-92667	Sequence 92668, A
C 397	13.8	76.7	415	6	US-10-099-926-102	Sequence 102, App	C 470	13.8	76.7	600	3	US-09-864-761-7097	Sequence 7097, Ap
C 398	13.8	76.7	415	6	US-10-961-527-102	Sequence 102, App	C 471	13.8	76.7	600	3	US-10-956-157-7083	Sequence 7083, Ap
C 399	13.8	76.7	422	3	US-09-867-701-8175	Sequence 8175, Ap	C 472	13.8	76.7	600	9	US-10-956-157-9303	Sequence 9303, Ap
C 400	13.8	76.7	429	8	US-10-425-115-32770	Sequence 32770, App	C 473	13.8	76.7	600	9	US-10-972-079-20707	Sequence 20707, A
C 401	13.8	76.7	431	7	US-10-637-855-487	Sequence 487, App	C 474	13.8	76.7	600	9	US-10-972-079-30077	Sequence 30077, A
C 402	13.8	76.7	434	5	US-10-450-763-983	Sequence 983, App	C 475	13.8	76.7	600	9	US-10-972-079-30078	Sequence 30078, A
C 403	13.8	76.7	448	5	US-10-027-632-126022	Sequence 126022, A	C 476	13.8	76.7	600	9	US-10-972-079-30078	Sequence 30079, A
C 404	13.8	76.7	448	6	US-10-027-632-126022	Sequence 126022, A	C 477	13.8	76.7	600	9	US-10-972-079-30078	Sequence 30079, A
C 405	13.8	76.7	456	7	US-10-424-599-135324	Sequence 135324, A	C 478	13.8	76.7	600	9	US-10-972-079-73538	Sequence 73538, A
C 406	13.8	76.7	464	3	US-09-728-445-618	Sequence 618, App	C 479	13.8	76.7	600	9	US-10-972-079-73540	Sequence 73540, A
C 407	13.8	76.7	464	9	US-10-964-549-618	Sequence 618, App	C 480	13.8	76.7	600	9	US-10-972-079-73541	Sequence 73541, A
C 408	13.8	76.7	466	7	US-10-437-963-4055	Sequence 4055, Ap	C 481	13.8	76.7	602	4	US-09-925-065A-33996	Sequence 33996, A
C 409	13.8	76.7	469	4	US-09-925-065A-288565	Sequence 288565, A	C 482	13.8	76.7	603	4	US-09-925-065A-469313	Sequence 469313, A
C 410	13.8	76.7	479	8	US-10-425-115-629133	Sequence 629133, A	C 483	13.8	76.7	603	4	US-09-925-065A-469314	Sequence 469314, A
C 411	13.8	76.7	483	4	US-09-925-065A-529831	Sequence 529831, A	C 484	13.8	76.7	610	4	US-09-925-065A-649747	Sequence 649747, A
C 412	13.8	76.7	487	3	US-09-918-995-1361	Sequence 1361, Ap	C 485	13.8	76.7	610	4	US-09-925-065A-649748	Sequence 649748, A
C 413	13.8	76.7	489	3	US-09-918-995-29586	Sequence 29586, A	C 486	13.8	76.7	610	4	US-09-925-065A-649748	Sequence 649748, A
C 414	13.8	76.7	490	8	US-10-425-115-71621	Sequence 71621, A	C 487	13.8	76.7	613	4	US-09-925-065A-625574	Sequence 625574, A
C 415	13.8	76.7	500	8	US-10-425-115-76348	Sequence 76348, A	C 488	13.8	76.7	613	4	US-09-925-065A-625575	Sequence 625575, A
C 416	13.8	76.7	500	8	US-10-723-860-817	Sequence 817, App	C 489	13.8	76.7	614	4	US-09-925-065A-625576	Sequence 625576, A
C 417	13.8	76.7	502	3	US-09-918-995-23556	Sequence 23556, A	C 490	13.8	76.7	614	4	US-09-925-065A-470031	Sequence 470031, A
C 418	13.8	76.7	504	4	US-09-925-065A-831695	Sequence 831695, A	C 491	13.8	76.7	620	4	US-09-925-065A-470032	Sequence 470032, A
C 419	13.8	76.7	504	5	US-10-027-632-43592	Sequence 43592, A	C 492	13.8	76.7	620	4	US-09-925-065A-780354	Sequence 780354, A
C 420	13.8	76.7	504	6	US-10-027-632-43592	Sequence 43592, A	C 493	13.8	76.7	620	5	US-09-925-065A-841549	Sequence 841549, A
C 421	13.8	76.7	512	6	US-10-029-386-6451	Sequence 6451, Ap	C 494	13.8	76.7	620	6	US-10-027-632-115982	Sequence 115982, A
C 422	13.8	76.7	521	5	US-10-027-632-270870	Sequence 270870, A	C 495	13.8	76.7	626	4	US-09-925-065A-514303	Sequence 514303, A
C 423	13.8	76.7	521	5	US-10-027-632-270871	Sequence 270871, A	C 496	13.8	76.7	627	7	US-10-282-122A-11464	Sequence 11464, A
C 424	13.8	76.7	521	6	US-10-027-632-270870	Sequence 270870, A	C 497	13.8	76.7	629	4	US-09-925-065A-515613	Sequence 515613, A
C 425	13.8	76.7	521	6	US-10-027-632-270871	Sequence 270871, A	C 498	13.8	76.7	631	4	US-09-925-065A-120778	Sequence 120778, A
C 426	13.8	76.7	528	4	US-09-925-065A-139789	Sequence 139789, A	C 499	13.8	76.7	633	4	US-09-925-065A-367641	Sequence 367641, A
C 427	13.8	76.7	528	4	US-09-925-065A-139790	Sequence 139790, A	C 500	13.8	76.7	633	4	US-09-925-065A-367647	Sequence 367647, A
C 428	13.8	76.7	533	4	US-09-925-065A-603659	Sequence 603659, A	C 501	13.8	76.7	633	4	US-09-925-065A-367648	Sequence 367648, A
C 429	13.8	76.7	534	6	US-10-232-896-113	Sequence 113, App	C 502	13.8	76.7	634	5	US-10-027-632-125725	Sequence 125725, A
C 430	13.8	76.7	534	8	US-10-705-401-110	Sequence 110, App	C 503	13.8	76.7	634	6	US-10-027-632-125725	Sequence 125725, A
C 431	13.8	76.7	542	6	US-10-027-632-54049	Sequence 54049, A	C 504	13.8	76.7	641	4	US-09-925-065A-671129	Sequence 671129, A
C 432	13.8	76.7	542	6	US-10-027-632-54049	Sequence 54049, A	C 505	13.8	76.7	641	4	US-09-925-065A-671130	Sequence 671130, A
C 433	13.8	76.7	543	4	US-09-925-065A-53266	Sequence 53266, A	C 506	13.8	76.7	641	5	US-10-027-632-16770	Sequence 16770, A
C 434	13.8	76.7	543	4	US-09-925-065A-53267	Sequence 53267, A	C 507	13.8	76.7	641	6	US-10-027-632-16770	Sequence 16770, A
C 435	13.8	76.7	543	5	US-10-027-632-246898	Sequence 246898, A	C 508	13.8	76.7	645	8	US-10-653-047-6571	Sequence 6571, Ap
C 436	13.8	76.7	543	5	US-10-027-632-246899	Sequence 246899, A	C 509	13.8	76.7	655	4	US-09-925-065A-680417	Sequence 680417, A
C 437	13.8	76.7	543	6	US-10-027-632-246899	Sequence 246899, A	C 510	13.8	76.7	667	4	US-09-925-065A-861962	Sequence 861962, A
C 438	13.8	76.7	543	6	US-10-027-632-246899	Sequence 246899, A	C 511	13.8	76.7	667	4	US-09-925-065A-861963	Sequence 861963, A
C 439	13.8	76.7	544	4	US-09-925-065A-456115	Sequence 456115, A	C 512	13.8	76.7	667	4	US-09-925-065A-861963	Sequence 861963, A
C 440	13.8	76.7	554	4	US-09-925-065A-484475	Sequence 484475, A	C 513	13.8	76.7	668	6	US-10-029-386-20182	Sequence 20182, A
C 441	13.8	76.7	559	7	US-10-425-114-17375	Sequence 17375, A	C 514	13.8	76.7	673	4	US-09-925-065A-861000	Sequence 861000, A
C 442	13.8	76.7	562	7	US-10-425-114-31312	Sequence 31312, A	C 515	13.8	76.7	678	5	US-10-027-632-113988	Sequence 113988, A
C 443	13.8	76.7	563	7	US-10-430-201-2615	Sequence 2615, Ap	C 516	13.8	76.7	678	6	US-10-027-632-113988	Sequence 113988, A
C 444	13.8	76.7	563	7	US-10-430-201-2616	Sequence 2616, Ap	C 517	13.8	76.7	684	6	US-10-032-221B-5	Sequence 5, Appli
C 445	13.8	76.7	564	5	US-10-027-632-298693	Sequence 298693, A	C 518	13.8	76.7	684	7	US-10-390-933B-5	Sequence 5, Appli
C 446	13.8	76.7	564	5	US-10-027-632-321954	Sequence 321954, A	C 519	13.8	76.7	687	4	US-09-925-065A-785542	Sequence 785542, A
C 447	13.8	76.7	564	6	US-10-027-632-298693	Sequence 298693, A	C 520	13.8	76.7	687	4	US-09-925-065A-785543	Sequence 785543, A
C 448	13.8	76.7	564	6	US-10-027-632-321954	Sequence 321954, A	C 521	13.8	76.7	687	4	US-09-925-065A-785544	Sequence 785544, A
C 449	13.8	76.7	567	4	US-09-925-065A-746420	Sequence 746420, A	C 522	13.8	76.7	690	7	US-10-072-012-15	Sequence 15, Appl
C 450	13.8	76.7	568	5	US-10-027-632-289174	Sequence 289174, A	C 523	13.8	76.7	695	8	US-10-425-115-112610	Sequence 112610, A
C 451	13.8	76.7	568	6	US-10-027-632-289174	Sequence 289174, A	C 524	13.8	76.7	695	7	US-10-072-012-11	Sequence 11, Appl
C 452	13.8	76.7	569	4	US-09-925-065A-613338	Sequence 613338, A	C 525	13.8	76.7	695	7	US-10-072-012-13	Sequence 13, Appl
C 453	13.8	76.7	569	4	US-09-925-065A-613339	Sequence 613339, A	C 526	13.8	76.7	695	7	US-10-027-632-283313	Sequence 283313, A
C 454	13.8	76.7	571	4	US-09-925-065A-773464	Sequence 773464, A	C 527	13.8	76.7	719	6	US-10-027-632-283313	Sequence 283313, A
C 455	13.8	76.7	574	5	US-10-027-632-125726	Sequence 125726, A	C 528	13.8	76.7	765	7	US-10-425-114-2115	Sequence 2115, Ap
C 456	13.8	76.7	574	6	US-10-027-632-125726	Sequence 125726, A	C 529	13.8	76.7	765	9	US-10-450-763-27971	Sequence 27971, A
C 457	13.8	76.7	574	9	US-10-450-763-12112	Sequence 12112, A	C 530	13.8	76.7	769	5	US-10-027-632-171631	Sequence 171631, A
C 458	13.8	76.7	581	4	US-09-925-065A-80516	Sequence 80516, A	C 531	13.8	76.7	769	6	US-10-027-632-171631	Sequence 171631, A
C 459	13.8	76.7	584	5	US-10-027-632-232801	Sequence 232801, A	C 532	13.8	76.7	780	6	US-10-027-632-170797	Sequence 170797, A
C 460	13.8	76.7	584	6	US-10-027-632-232801	Sequence 232801, A	C 533	13.8	76.7	780	6	US-10-027-632-170797	Sequence 170797, A
C 461	13.8	76.7	587	8	US-10-425-115-67579	Sequence 67579, A	C 534	13.8	76.7	792	5	US-10-027-632-171632	Sequence 171632, A

535	13.8	76.7	792	6	US-10-027-632-171632	Sequence 171632,	608	13.8	76.7	1275	6	US-10-369-493-45070	Sequence 45070, A
536	13.8	76.7	833	7	US-10-425-114-25421	Sequence 25421, A	c 609	13.8	76.7	1277	7	US-10-029-020-5	Sequence 5, Appli
537	13.8	76.7	838	7	US-10-425-114-36136	Sequence 36136, A	c 610	13.8	76.7	1314	6	US-10-369-493-45473	Sequence 45473, A
538	13.8	76.7	859	7	US-10-425-114-27444	Sequence 27444, A	c 611	13.8	76.7	1322	7	US-10-029-020-7	Sequence 7, Appli
539	13.8	76.7	863	7	US-10-425-114-27291	Sequence 27291, A	c 612	13.8	76.7	1325	7	US-10-470-360-43	Sequence 43, Appli
540	13.8	76.7	865	7	US-10-425-114-27658	Sequence 27658, A	c 613	13.8	76.7	1327	7	US-10-425-114-5461	Sequence 5461, Ap
541	13.8	76.7	867	7	US-10-425-114-27768	Sequence 27768, Ap	c 614	13.8	76.7	1335	7	US-10-282-122A-28610	Sequence 28610, A
c 542	13.8	76.7	875	5	US-10-027-632-10697	Sequence 10697, A	c 615	13.8	76.7	1338	7	US-10-282-122A-28659	Sequence 28659, A
543	13.8	76.7	878	3	US-10-027-632-10697	Sequence 10697, A	c 616	13.8	76.7	1340	7	US-10-425-114-20417	Sequence 20417, A
544	13.8	76.7	878	3	US-09-974-300-337	Sequence 337, App	c 617	13.8	76.7	1357	6	US-10-085-167-1	Sequence 1, Appli
c 545	13.8	76.7	900	7	US-10-738-304-3	Sequence 3, Appli	c 618	13.8	76.7	1383	6	US-10-369-493-24204	Sequence 24204, A
c 546	13.8	76.7	900	8	US-10-903-827-3	Sequence 3, Appli	c 619	13.8	76.7	1389	7	US-10-437-963-20321	Sequence 20321, A
c 547	13.8	76.7	909	8	US-10-425-115-114611	Sequence 114611,	c 620	13.8	76.7	1400	9	US-10-356-157-6157	Sequence 6157, Ap
548	13.8	76.7	947	8	US-10-425-115-2428	Sequence 2428, Ap	c 621	13.8	76.7	1400	10	US-11-060-756-3832	Sequence 8104, Ap
549	13.8	76.7	973	8	US-10-425-115-49092	Sequence 49092, A	c 622	13.8	76.7	1400	10	US-11-060-756-8104	Sequence 8104, Ap
c 550	13.8	76.7	990	6	US-10-236-055A-23	Sequence 23, Appl	c 623	13.8	76.7	1403	2	US-08-838-151A-60	Sequence 60, Appl
551	13.8	76.7	992	9	US-10-499-352A-13	Sequence 13, Appl	c 624	13.8	76.7	1409	9	US-10-450-763-29422	Sequence 29422, A
552	13.8	76.7	993	6	US-10-369-493-24260	Sequence 24260, A	c 625	13.8	76.7	1416	4	US-09-925-065A-666973	Sequence 666973, A
553	13.8	76.7	994	8	US-10-425-115-179498	Sequence 179498, A	c 626	13.8	76.7	1436	8	US-10-723-860-6664	Sequence 6664, Ap
554	13.8	76.7	998	4	US-09-925-065A-86377	Sequence 86377, A	c 627	13.8	76.7	1437	6	US-10-156-761-5988	Sequence 5988, Ap
555	13.8	76.7	1000	5	US-10-027-632-31864	Sequence 31864, A	c 628	13.8	76.7	1453	8	US-10-425-115-182162	Sequence 182162, A
556	13.8	76.7	1000	6	US-10-027-632-31864	Sequence 31864, A	c 629	13.8	76.7	1464	7	US-10-282-122A-15075	Sequence 15075, A
c 557	13.8	76.7	1001	9	US-10-779-543-7970	Sequence 7970, Ap	c 630	13.8	76.7	1488	5	US-10-087-192-1349	Sequence 1349, Ap
c 558	13.8	76.7	1005	7	US-10-282-122A-21637	Sequence 21637, A	c 631	13.8	76.7	1494	6	US-10-203-319A-54	Sequence 54, Appli
559	13.8	76.7	1012	3	US-09-957-397-4	Sequence 4, Appli	c 632	13.8	76.7	1501	8	US-10-732-011-1	Sequence 1, Appli
560	13.8	76.7	1053	6	US-10-369-493-27555	Sequence 27555, A	c 633	13.8	76.7	1501	9	US-10-450-763-11199	Sequence 11199, A
561	13.8	76.7	1068	5	US-10-027-632-119466	Sequence 119466,	c 634	13.8	76.7	1510	10	US-11-097-143-5627	Sequence 5627, Ap
562	13.8	76.7	1104	5	US-10-027-632-119466	Sequence 119466,	c 635	13.8	76.7	1525	3	US-09-981-353-168	Sequence 168, App
563	13.8	76.7	1106	6	US-10-027-632-101331	Sequence 101331,	c 636	13.8	76.7	1527	6	US-10-369-493-24054	Sequence 24054, A
564	13.8	76.7	1104	5	US-10-027-632-101331	Sequence 101331,	c 637	13.8	76.7	1554	6	US-10-156-761-597	Sequence 597, App
565	13.8	76.7	1106	6	US-10-027-632-9377	Sequence 9377, Ap	c 638	13.8	76.7	1599	3	US-09-925-301-372	Sequence 372, App
566	13.8	76.7	1106	6	US-10-027-632-9377	Sequence 9377, Ap	c 639	13.8	76.7	1612	8	US-10-425-115-49091	Sequence 49091, A
567	13.8	76.7	1127	3	US-10-425-114-10016	Sequence 10016, A	c 640	13.8	76.7	1612	8	US-10-425-115-108818	Sequence 108818, A
568	13.8	76.7	1127	4	US-09-822-830A-602	Sequence 602, App	c 641	13.8	76.7	1680	5	US-10-128-714-7457	Sequence 7457, Ap
c 569	13.8	76.7	1127	4	US-09-925-065A-38776	Sequence 38776, A	c 642	13.8	76.7	1723	6	US-10-094-749-39	Sequence 39, Appli
c 570	13.8	76.7	1127	4	US-09-925-065A-38777	Sequence 38777, A	c 643	13.8	76.7	1733	6	US-09-925-065A-67975	Sequence 67975, A
c 571	13.8	76.7	1129	8	Sequence 108817,	Sequence 108817,	c 644	13.8	76.7	1764	4	US-09-925-065A-717091	Sequence 717091, A
c 572	13.8	76.7	1133	7	Sequence 20509, A	Sequence 20509, A	c 645	13.8	76.7	1792	4	US-10-450-763-3898	Sequence 3898, Ap
c 573	13.8	76.7	1140	9	Sequence 22940, A	Sequence 22940, A	c 646	13.8	76.7	1854	9	US-10-864-701-1	Sequence 1, Appli
c 574	13.8	76.7	1143	7	Sequence 5078, Ap	Sequence 5078, Ap	c 647	13.8	76.7	1880	5	US-10-128-714-6457	Sequence 6457, Ap
c 575	13.8	76.7	1152	6	Sequence 7387, Ap	Sequence 7387, Ap	c 648	13.8	76.7	1937	5	US-10-027-632-97139	Sequence 97139, A
c 576	13.8	76.7	1162	2	Sequence 1, Appli	Sequence 1, Appli	c 649	13.8	76.7	1937	5	US-10-027-632-97140	Sequence 97140, A
c 577	13.8	76.7	1166	2	Sequence 13, Appl	Sequence 13, Appl	c 650	13.8	76.7	1937	6	US-10-027-632-97139	Sequence 97139, A
c 578	13.8	76.7	1169	2	Sequence 3, Appli	Sequence 3, Appli	c 651	13.8	76.7	1937	6	US-10-027-632-97139	Sequence 97139, A
c 579	13.8	76.7	1169	2	Sequence 5, Appli	Sequence 5, Appli	c 652	13.8	76.7	1945	3	US-10-764-420-2125	Sequence 2125, Ap
c 580	13.8	76.7	1169	2	Sequence 7, Appli	Sequence 7, Appli	c 653	13.8	76.7	2030	9	US-10-450-763-12114	Sequence 12114, A
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582	13.8	76.7	1176	8	Sequence 137802,	Sequence 137802,	c 655	13.8	76.7	2058	9	US-10-450-763-29619	Sequence 29619, A
c 583	13.8	76.7	1185	6	Sequence 3298, Ap	Sequence 3298, Ap	c 656	13.8	76.7	2073	6	US-10-156-761-971	Sequence 971, App
c 584	13.8	76.7	1194	6	Sequence 17, Appl	Sequence 17, Appl	c 657	13.8	76.7	2093	7	US-10-424-599-99188	Sequence 99188, A
585	13.8	76.7	1204	7	Sequence 272, App	Sequence 272, App	c 658	13.8	76.7	2167	3	US-09-822-849A-391	Sequence 391, App
586	13.8	76.7	1207	6	Sequence 36781, A	Sequence 36781, A	c 659	13.8	76.7	2187	8	US-10-739-930-3801	Sequence 3801, Ap
c 587	13.8	76.7	1209	7	Sequence 30058, A	Sequence 30058, A	c 660	13.8	76.7	2202	3	US-09-814-353-19163	Sequence 19163, A
588	13.8	76.7	1215	6	Sequence 34, Appl	Sequence 34, Appl	c 661	13.8	76.7	2211	7	US-10-302-172-181	Sequence 181, App
589	13.8	76.7	1215	6	Sequence 60, Appl	Sequence 60, Appl	c 662	13.8	76.7	2212	3	US-10-342-887-1903	Sequence 1903, Ap
590	13.8	76.7	1215	6	Sequence 62, Appl	Sequence 62, Appl	c 663	13.8	76.7	2212	3	US-10-852-335A-62	Sequence 62, Appl
591	13.8	76.7	1215	6	Sequence 64, Appl	Sequence 64, Appl	c 664	13.8	76.7	2212	6	US-09-768-826-11	Sequence 11, Appl
592	13.8	76.7	1215	6	Sequence 66, Appl	Sequence 66, Appl	c 665	13.8	76.7	2212	6	US-10-874-484-11	Sequence 11, Appl
593	13.8	76.7	1215	6	Sequence 72, Appl	Sequence 72, Appl	c 666	13.8	76.7	2212	6	US-10-372-683-29	Sequence 29, Appli
594	13.8	76.7	1215	6	Sequence 74, Appl	Sequence 74, Appl	c 667	13.8	76.7	2212	7	US-10-342-887-1903	Sequence 1903, Ap
595	13.8	76.7	1215	9	Sequence 34, Appl	Sequence 34, Appl	c 668	13.8	76.7	2212	9	US-10-848-755A-206	Sequence 206, App
596	13.8	76.7	1215	9	Sequence 60, Appl	Sequence 60, Appl	c 669	13.8	76.7	2247	8	US-10-852-335A-62	Sequence 62, Appl
597	13.8	76.7	1215	9	Sequence 62, Appl	Sequence 62, Appl	c 670	13.8	76.7	2247	8	US-10-768-826-11	Sequence 11, Appl
598	13.8	76.7	1215	9	Sequence 64, Appl	Sequence 64, Appl	c 671	13.8	76.7	2255	6	US-10-104-047-881	Sequence 881, App
599	13.8	76.7	1215	9	Sequence 66, Appl	Sequence 66, Appl	c 672	13.8	76.7	2276	6	US-10-104-047-881	Sequence 881, App
600	13.8	76.7	1215	9	Sequence 72, Appl	Sequence 72, Appl	c 673	13.8	76.7	2289	7	US-10-104-047-881	Sequence 881, App
c 601	13.8	76.7	1215	9	Sequence 74, Appl	Sequence 74, Appl	c 674	13.8	76.7	2315	7	US-10-437-963-46254	Sequence 46254, A
c 602	13.8	76.7	1238	9	Sequence 3927, Ap	Sequence 3927, Ap	c 675	13.8	76.7	2318	7	US-10-437-963-96611	Sequence 96611, A
603	13.8	76.7	1242	2	Sequence 32245, A	Sequence 32245, A	c 676	13.8	76.7	2343	5	US-09-965-313-1	Sequence 1, Appli
c 604	13.8	76.7	1246	2	Sequence 151A-15	Sequence 151A-15	c 677	13.8	76.7	2349	3	US-10-104-019-2	Sequence 2, Appli
c 605	13.8	76.7	1254	7	Sequence 12569, A	Sequence 12569, A	c 678	13.8	76.7	2349	6	US-10-104-019-2	Sequence 2, Appli
606	13.8	76.7	1263	6	Sequence 104, App	Sequence 104, App	c 679	13.8	76.7	2349	6	US-10-428-826-2	Sequence 2, Appli
607	13.8	76.7	1263	6	Sequence 656, App	Sequence 656, App	c 680	13.8	76.7	2409	6	US-10-062-674-2111	Sequence 2111, Ap

681	13.8	76.7	2440	4	US-09-925-065A-667486	Sequence 667486,	c 754	13.8	76.7	3679	3	US-09-906-700-244	Sequence 244, App
682	13.8	76.7	2440	4	US-09-925-065A-667487	Sequence 667487,	c 755	13.8	76.7	3679	3	US-09-903-786-244	Sequence 244, App
683	13.8	76.7	2440	4	US-09-925-065A-667488	Sequence 667488,	c 756	13.8	76.7	3679	3	US-09-902-903-244	Sequence 244, App
c 684	13.8	76.7	2460	6	US-10-004-113-60	Sequence 60, Appl	c 757	13.8	76.7	3679	3	US-09-903-749A-244	Sequence 244, App
685	13.8	76.7	2502	6	US-10-108-260A-1878	Sequence 1878, Ap	c 758	13.8	76.7	3679	3	US-09-904-119-244	Sequence 244, App
686	13.8	76.7	2502	10	US-11-097-143-32731	Sequence 32731, A	c 759	13.8	76.7	3679	3	US-09-904-956-244	Sequence 244, App
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c 688	13.8	76.7	2542	6	US-10-104-047-1646	Sequence 1646, Ap	c 761	13.8	76.7	3679	3	US-09-907-794-244	Sequence 244, App
c 689	13.8	76.7	2576	5	US-10-037-270-1034	Sequence 1034, Ap	c 762	13.8	76.7	3679	3	US-08-903-943-244	Sequence 244, App
c 690	13.8	76.7	2576	6	US-10-117-722-1034	Sequence 1034, Ap	c 763	13.8	76.7	3679	3	US-09-904-462-244	Sequence 244, App
c 691	13.8	76.7	2576	6	US-10-122-851-1034	Sequence 1034, Ap	c 764	13.8	76.7	3679	3	US-09-907-925-244	Sequence 244, App
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693	13.8	76.7	2602	9	US-08-838-151A-17	Sequence 17, Appl	c 766	13.8	76.7	3679	3	US-09-903-520-244	Sequence 244, App
694	13.8	76.7	2622	7	US-10-282-122A-27621	Sequence 27621, A	c 767	13.8	76.7	3679	3	US-09-905-056-244	Sequence 244, App
695	13.8	76.7	2627	5	US-10-027-632-111849	Sequence 111849,	c 768	13.8	76.7	3679	3	US-09-909-064-244	Sequence 244, App
696	13.8	76.7	2627	6	US-10-027-632-111849	Sequence 111849,	c 769	13.8	76.7	3679	3	US-09-904-553-244	Sequence 244, App
c 697	13.8	76.7	2632	8	US-10-864-701-2	Sequence 2, Appli	c 770	13.8	76.7	3679	3	US-09-905-381-244	Sequence 244, App
c 698	13.8	76.7	2644	3	US-09-768-826-12	Sequence 12, Appl	c 771	13.8	76.7	3679	3	US-09-904-485-244	Sequence 244, App
699	13.8	76.7	2644	8	US-10-874-484-12	Sequence 12, Appl	c 772	13.8	76.7	3679	3	US-09-905-348-244	Sequence 244, App
700	13.8	76.7	2644	8	US-10-821-273-21	Sequence 21, Appl	c 773	13.8	76.7	3679	3	US-09-905-088-244	Sequence 244, App
c 701	13.8	76.7	2665	6	US-10-284-237-1371	Sequence 1371, Ap	c 774	13.8	76.7	3679	3	US-09-907-575-244	Sequence 244, App
702	13.8	76.7	2667	7	US-10-437-963-83867	Sequence 83867, A	c 775	13.8	76.7	3679	3	US-09-905-075-244	Sequence 244, App
c 703	13.8	76.7	2723	5	US-10-087-192-1112	Sequence 1112, Ap	c 776	13.8	76.7	3679	3	US-09-902-759-244	Sequence 244, App
c 704	13.8	76.7	2737	3	US-10-631-467-1187	Sequence 1187, Ap	c 777	13.8	76.7	3679	3	US-09-902-634-244	Sequence 244, App
705	13.8	76.7	2737	3	US-09-959-708-353	Sequence 353, App	c 778	13.8	76.7	3679	3	US-09-902-713-244	Sequence 244, App
706	13.8	76.7	2767	9	US-10-843-641A-7824	Sequence 7824, Ap	c 779	13.8	76.7	3679	3	US-09-907-979-244	Sequence 244, App
707	13.8	76.7	2767	9	US-10-956-157-922	Sequence 922, App	c 780	13.8	76.7	3679	3	US-09-902-615-244	Sequence 244, App
708	13.8	76.7	2773	9	US-10-450-763-30086	Sequence 30086, A	c 781	13.8	76.7	3679	3	US-09-903-925-244	Sequence 244, App
c 709	13.8	76.7	2776	9	US-10-450-763-17489	Sequence 17489, A	c 782	13.8	76.7	3679	3	US-09-906-760A-244	Sequence 244, App
c 710	13.8	76.7	2810	5	US-10-450-763-35	Sequence 35, Appl	c 783	13.8	76.7	3679	3	US-09-903-823-244	Sequence 244, App
c 711	13.8	76.7	2859	6	US-10-108-260A-1056	Sequence 1056, Ap	c 784	13.8	76.7	3679	3	US-09-907-652-244	Sequence 244, App
c 712	13.8	76.7	2969	7	US-10-302-172-388	Sequence 388, App	c 785	13.8	76.7	3679	3	US-09-902-572A-244	Sequence 244, App
c 713	13.8	76.7	2975	6	US-10-108-260A-1117	Sequence 1117, Ap	c 786	13.8	76.7	3679	3	US-09-902-929-244	Sequence 244, App
c 714	13.8	76.7	3102	9	US-10-956-157-2411	Sequence 2411, Ap	c 787	13.8	76.7	3679	3	US-09-905-125-244	Sequence 244, App
c 715	13.8	76.7	3132	9	US-10-450-763-10737	Sequence 10737, A	c 788	13.8	76.7	3679	3	US-09-906-815A-244	Sequence 244, App
716	13.8	76.7	3132	9	US-10-450-763-15107	Sequence 15107, A	c 789	13.8	76.7	3679	3	US-09-905-449-244	Sequence 244, App
c 717	13.8	76.7	3132	9	US-10-450-763-18179	Sequence 18179, A	c 790	13.8	76.7	3679	3	US-09-903-806-244	Sequence 244, App
718	13.8	76.7	3132	9	US-10-450-763-30114	Sequence 30114, A	c 791	13.8	76.7	3679	3	US-09-904-992-244	Sequence 244, App
719	13.8	76.7	3149	3	US-09-978-168-3	Sequence 3, Appli	c 792	13.8	76.7	3679	3	US-09-904-838-244	Sequence 244, App
c 720	13.8	76.7	3159	9	US-10-450-763-35161	Sequence 35161, A	c 793	13.8	76.7	3679	3	US-09-906-777-244	Sequence 244, App
721	13.8	76.7	3170	8	US-10-425-115-63897	Sequence 63897, A	c 794	13.8	76.7	3679	3	US-09-903-603A-244	Sequence 244, App
c 722	13.8	76.7	3189	9	US-10-450-763-28941	Sequence 28941, A	c 795	13.8	76.7	3679	3	US-09-904-532-244	Sequence 244, App
c 723	13.8	76.7	3207	6	US-10-274-583-13	Sequence 13, Appl	c 796	13.8	76.7	3679	3	US-09-904-766-244	Sequence 244, App
c 724	13.8	76.7	3227	6	US-10-274-583-9	Sequence 9, Appli	c 797	13.8	76.7	3679	3	US-09-904-920A-244	Sequence 244, App
c 725	13.8	76.7	3227	6	US-10-274-583-10	Sequence 10, Appl	c 798	13.8	76.7	3679	3	US-09-904-877A-244	Sequence 244, App
c 726	13.8	76.7	3227	9	US-10-756-149-4213	Sequence 4213, Ap	c 799	13.8	76.7	3679	3	US-09-903-562-244	Sequence 244, App
c 727	13.8	76.7	3233	3	US-09-925-302-75	Sequence 75, Appl	c 800	13.8	76.7	3679	3	US-09-906-618-244	Sequence 244, App
c 728	13.8	76.7	3233	3	US-09-925-302-75	Sequence 75, Appl	c 801	13.8	76.7	3679	3	US-09-907-728-244	Sequence 244, App
c 729	13.8	76.7	3234	9	US-10-781-060-10	Sequence 10, Appl	c 802	13.8	76.7	3679	3	US-09-904-805-244	Sequence 244, App
730	13.8	76.7	3264	9	US-10-450-763-26697	Sequence 26697, A	c 803	13.8	76.7	3679	3	US-09-906-722A-244	Sequence 244, App
c 731	13.8	76.7	3275	3	US-09-814-353-19982	Sequence 19982, A	c 804	13.8	76.7	3679	3	US-09-906-576-244	Sequence 244, App
c 732	13.8	76.7	3311	9	US-10-491-467-81	Sequence 81, Appl	c 805	13.8	76.7	3679	3	US-10-125-166-2	Sequence 2, Appli
c 733	13.8	76.7	3308	6	US-10-094-749-876	Sequence 876, App	c 806	13.8	76.7	3679	5	US-10-125-166-2	Sequence 2, Appli
734	13.8	76.7	3349	6	US-10-499-352A-42	Sequence 42, Appl	c 807	13.8	76.7	3679	6	US-10-299-976-244	Sequence 244, App
c 735	13.8	76.7	3591	9	US-10-491-467-56	Sequence 56, Appl	c 808	13.8	76.7	3679	6	US-10-299-937-244	Sequence 244, App
c 736	13.8	76.7	3679	3	US-09-909-320-244	Sequence 244, App	c 809	13.8	76.7	3679	6	US-10-298-993-244	Sequence 244, App
c 737	13.8	76.7	3679	3	US-09-909-320-244	Sequence 244, App	c 810	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 738	13.8	76.7	3679	3	US-09-909-320-244	Sequence 244, App	c 811	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 739	13.8	76.7	3679	3	US-09-902-853-244	Sequence 244, App	c 812	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 740	13.8	76.7	3679	3	US-09-907-841-244	Sequence 244, App	c 813	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 741	13.8	76.7	3679	3	US-09-907-841-244	Sequence 244, App	c 814	13.8	76.7	3679	7	US-10-425-447-244	Sequence 244, App
c 742	13.8	76.7	3679	3	US-09-904-011-244	Sequence 244, App	c 815	13.8	76.7	3679	7	US-10-215-371-244	Sequence 244, App
c 743	13.8	76.7	3679	3	US-09-903-640-244	Sequence 244, App	c 816	13.8	76.7	3679	8	US-10-797-366-244	Sequence 244, App
c 744	13.8	76.7	3679	3	US-09-908-093-244	Sequence 244, App	c 817	13.8	76.7	3679	8	US-10-771-187-244	Sequence 244, App
c 745	13.8	76.7	3679	3	US-09-908-093-244	Sequence 244, App	c 818	13.8	76.7	3679	8	US-10-916-250-2	Sequence 2, Appli
c 746	13.8	76.7	3679	3	US-09-906-742-244	Sequence 244, App	c 819	13.8	76.7	3679	9	US-10-963-467-244	Sequence 244, App
c 747	13.8	76.7	3679	3	US-09-907-613-244	Sequence 244, App	c 820	13.8	76.7	3679	9	US-10-978-255-244	Sequence 244, App
c 748	13.8	76.7	3679	3	US-09-907-613-244	Sequence 244, App	c 821	13.8	76.7	3679	9	US-10-970-823-244	Sequence 244, App
c 749	13.8	76.7	3679	3	US-09-907-942-244	Sequence 244, App	c 822	13.8	76.7	3679	9	US-10-989-826-60	Sequence 60, Appl
c 750	13.8	76.7	3679	3	US-09-904-859-244	Sequence 244, App	c 823	13.8	76.7	3679	5	US-10-437-963-35965	Sequence 35965, A
c 751	13.8	76.7	3679	3	US-09-904-820-244	Sequence 244, App	c 824	13.8	76.7	3679	10	US-10-128-714-5457	Sequence 5457, A
c 752	13.8	76.7	3679	3	US-09-904-786-244	Sequence 244, App	c 825	13.8	76.7	3679	10	US-11-097-143-5626	Sequence 5626, Ap
c 753	13.8	76.7	3679	3	US-09-906-646-244	Sequence 244, App	c 826	13.8	76.7	3679	10	US-11-097-143-31876	Sequence 31876, A
											9	US-10-764-420-1224	Sequence 1224, Ap

C 827	13.8	76.7	4079	8	US-10-331-053-43	Sequence 43, Appl	900	13.8	76.7	24247	7	US-10-322-281-185	Sequence 185, App
C 828	13.8	76.7	4099	8	US-10-331-053-41	Sequence 41, Appl	901	13.8	76.7	25849	5	US-10-087-192-1525	Sequence 1525, Ap
C 829	13.8	76.7	4105	8	US-10-331-053-45	Sequence 45, Appl	C 902	13.8	76.7	27740	6	US-10-004-113-58	Sequence 58, Appl
C 830	13.8	76.7	4186	6	US-10-177-293-243	Sequence 243, App	C 903	13.8	76.7	30274	9	US-10-450-763-21055	Sequence 21055, A
C 831	13.8	76.7	4186	6	US-10-172-118-37	Sequence 37, Appl	C 904	13.8	76.7	30274	3	US-09-927-091-5	Sequence 5, Appli
C 832	13.8	76.7	4186	7	US-10-342-887-37	Sequence 37, Appl	C 905	13.8	76.7	30676	3	US-09-927-091-8	Sequence 8, Appli
C 833	13.8	76.7	4186	9	US-10-848-755A-47	Sequence 47, Appl	C 906	13.8	76.7	33454	5	US-10-087-192-1111	Sequence 1111, Ap
C 834	13.8	76.7	4215	3	US-09-829-472A-10	Sequence 10, Appl	C 907	13.8	76.7	34750	10	US-11-097-143-21724	Sequence 21724, A
C 835	13.8	76.7	4359	5	US-10-956-157-4068	Sequence 4068, Ap	C 908	13.8	76.7	37051	6	US-10-004-113-55	Sequence 55, Appl
C 836	13.8	76.7	4359	5	US-10-084-817-124	Sequence 124, App	C 909	13.8	76.7	38234	5	US-10-087-192-1762	Sequence 1762, Ap
C 837	13.8	76.7	4404	10	US-11-097-143-26122	Sequence 26122, A	C 910	13.8	76.7	39556	8	US-10-331-053-40	Sequence 40, Appl
C 838	13.8	76.7	4451	6	US-10-102-239-1	Sequence 1, Appli	C 911	13.8	76.7	40352	10	US-11-097-143-23353	Sequence 23353, A
C 839	13.8	76.7	4465	3	US-09-955-363-1	Sequence 1, Appli	C 912	13.8	76.7	40506	5	US-10-087-192-1216	Sequence 1216, Ap
C 840	13.8	76.7	4501	9	US-10-956-157-1848	Sequence 1848, Ap	C 913	13.8	76.7	42095	5	US-10-087-192-1939	Sequence 1939, Ap
C 841	13.8	76.7	4501	9	US-10-723-860-6203	Sequence 6203, Ap	C 914	13.8	76.7	43411	7	US-10-450-826-76	Sequence 76, Appl
C 842	13.8	76.7	4894	6	US-10-094-466-57	Sequence 57, Appl	C 915	13.8	76.7	45845	3	US-09-927-091-6	Sequence 6, Appli
C 843	13.8	76.7	5029	5	US-10-087-192-1217	Sequence 1217, Ap	C 916	13.8	76.7	45845	3	US-10-915-740A-4	Sequence 4, Appli
C 844	13.8	76.7	5036	6	US-10-274-583-12	Sequence 12, Appl	C 917	13.8	76.7	46594	6	US-10-292-798-1253	Sequence 1253, Ap
C 845	13.8	76.7	5054	7	US-10-276-774-1048	Sequence 1048, Ap	C 918	13.8	76.7	53009	6	US-10-087-192-262	Sequence 262, App
C 846	13.8	76.7	5278	7	US-10-467-595-48	Sequence 48, Appl	C 919	13.8	76.7	53954	5	US-09-997-722-19	Sequence 19, Appl
C 847	13.8	76.7	5286	9	US-10-756-149-1313	Sequence 1313, Ap	C 920	13.8	76.7	54355	3	US-10-160-497-4	Sequence 4, Appli
C 848	13.8	76.7	5332	5	US-10-198-846-9929	Sequence 9929, Ap	C 921	13.8	76.7	55001	6	US-10-348-750-4	Sequence 4, Appli
C 849	13.8	76.7	5570	6	US-10-007-926A-209	Sequence 209, App	C 922	13.8	76.7	55001	9	US-10-991-147-4	Sequence 4, Appli
C 850	13.8	76.7	5570	6	US-10-101-510-28	Sequence 28, Appl	C 923	13.8	76.7	56258	8	US-10-087-192-913	Sequence 913, App
C 851	13.8	76.7	5570	7	US-10-641-643-1193	Sequence 1193, Ap	C 924	13.8	76.7	63635	5	US-10-719-993-6874	Sequence 6874, Ap
C 852	13.8	76.7	5570	9	US-10-505-680-581	Sequence 581, App	C 925	13.8	76.7	65047	5	US-10-087-192-259	Sequence 259, App
C 853	13.8	76.7	5588	3	US-09-917-800A-1565	Sequence 1565, Ap	C 926	13.8	76.7	68255	5	US-10-087-192-772	Sequence 772, App
C 854	13.8	76.7	5598	6	US-10-159-563-297	Sequence 297, App	C 927	13.8	76.7	69706	6	US-10-085-117-229	Sequence 229, App
C 855	13.8	76.7	5598	6	US-10-326-806-5	Sequence 5, Appli	C 928	13.8	76.7	75853	5	US-10-087-192-382	Sequence 382, App
C 856	13.8	76.7	5598	9	US-10-450-763-20744	Sequence 20744, A	C 929	13.8	76.7	76670	5	US-10-087-192-2050	Sequence 2050, Ap
C 857	13.8	76.7	5622	5	US-10-084-817-164	Sequence 164, App	C 930	13.8	76.7	77478	5	US-10-087-192-1378	Sequence 1378, Ap
C 858	13.8	76.7	5746	9	US-10-936-626-78	Sequence 78, Appl	C 931	13.8	76.7	80077	5	US-10-087-192-1789	Sequence 1789, Ap
C 859	13.8	76.7	5746	9	US-10-938-061-78	Sequence 61, Appl	C 932	13.8	76.7	82121	6	US-10-085-117-136	Sequence 136, App
C 860	13.8	76.7	5855	8	US-10-783-528-52	Sequence 52, Appl	C 933	13.8	76.7	83450	3	US-09-811-469-3	Sequence 3, Appli
C 861	13.8	76.7	5855	3	US-09-889-890-45	Sequence 45, Appl	C 934	13.8	76.7	83450	6	US-10-370-659-3	Sequence 3, Appli
C 862	13.8	76.7	6093	7	US-10-322-281-460	Sequence 460, App	C 935	13.8	76.7	83450	9	US-10-732-453-3	Sequence 3, Appli
C 863	13.8	76.7	6276	6	US-10-133-937-69	Sequence 69, Appl	C 936	13.8	76.7	84105	7	US-10-741-601-5637	Sequence 5637, Ap
C 864	13.8	76.7	6276	6	US-10-159-563-69	Sequence 69, Appl	C 937	13.8	76.7	92117	7	US-10-087-192-1348	Sequence 1348, Ap
C 865	13.8	76.7	6315	8	US-10-723-860-5421	Sequence 5421, Ap	C 938	13.8	76.7	94001	7	US-10-210-838-20	Sequence 20, Appl
C 866	13.8	76.7	6726	8	US-10-723-860-5368	Sequence 5368, Ap	C 939	13.8	76.7	102374	5	US-10-087-192-667	Sequence 667, App
C 867	13.8	76.7	6747	9	US-10-756-149-2129	Sequence 2129, Ap	C 940	13.8	76.7	136436	3	US-10-756-149-3773	Sequence 3773, Ap
C 868	13.8	76.7	6798	3	US-09-764-875-1216	Sequence 1216, Ap	C 941	13.8	76.7	143068	3	US-09-967-768A-316	Sequence 316, App
C 869	13.8	76.7	6798	6	US-10-242-355-815	Sequence 815, App	C 942	13.8	76.7	143068	9	US-10-843-641A-6461	Sequence 6461, Ap
C 870	13.8	76.7	6868	5	US-10-328-531-13	Sequence 13, Appl	C 943	13.8	76.7	143973	5	US-10-087-192-442	Sequence 442, App
C 871	13.8	76.7	7332	3	US-09-944-849-1	Sequence 1, Appli	C 944	13.8	76.7	189013	8	US-10-484-577-669	Sequence 669, App
C 872	13.8	76.7	7454	10	US-11-097-143-4993	Sequence 4993, Ap	C 945	13.8	76.7	196063	7	US-10-322-281-612	Sequence 612, App
C 873	13.8	76.7	7596	6	US-10-004-113-57	Sequence 57, Appl	C 946	13.8	76.7	196151	9	US-10-381-277-51	Sequence 51, Appl
C 874	13.8	76.7	7615	6	US-10-004-113-59	Sequence 59, Appl	C 947	13.8	76.7	203132	7	US-10-322-281-459	Sequence 459, App
C 875	13.8	76.7	7673	3	US-09-815-925-1	Sequence 1, Appli	C 948	13.8	76.7	213040	5	US-10-087-192-856	Sequence 856, App
C 876	13.8	76.7	7673	6	US-10-294-006-1	Sequence 1, Appli	C 949	13.8	76.7	400660	8	US-10-388-838-68	Sequence 68, Appl
C 877	13.8	76.7	7693	6	US-10-160-497-11	Sequence 11, Appl	C 950	13.8	76.7	439892	5	US-10-087-192-454	Sequence 454, App
C 878	13.8	76.7	7693	6	US-10-348-750-11	Sequence 11, Appl	C 951	13.8	76.7	495635	9	US-10-737-082-12	Sequence 12, Appl
C 879	13.8	76.7	7693	7	US-10-072-012-133	Sequence 133, App	C 952	13.8	76.7	495635	9	US-10-765-790-12	Sequence 12, Appl
C 880	13.8	76.7	7693	9	US-10-991-147-11	Sequence 11, Appl	C 953	13.8	76.7	653458	9	US-10-461-862-4	Sequence 4, Appli
C 881	13.8	76.7	7861	6	US-10-120-988-305	Sequence 305, App	C 954	13.8	76.7	705636	9	US-10-737-082-30	Sequence 30, Appl
C 882	13.8	76.7	8064	6	US-10-004-113-56	Sequence 56, Appl	C 955	13.8	76.7	705636	9	US-10-765-790-30	Sequence 30, Appl
C 883	13.8	76.7	8078	3	US-09-764-864-1778	Sequence 1778, Ap	C 956	13.8	76.7	744802	6	US-10-292-798-1369	Sequence 1369, Ap
C 884	13.8	76.7	8078	3	US-09-764-864-1775	Sequence 1775, Ap	C 957	13.8	76.7	744802	9	US-10-915-740A-1068	Sequence 1068, Ap
C 885	13.8	76.7	10370	9	US-10-737-082-7	Sequence 7, Appli	C 958	13.8	76.7	9023608	6	US-10-156-761-1	Sequence 1, Appli
C 886	13.8	76.7	10370	9	US-10-765-790-7	Sequence 7, Appli	C 959	13.8	76.7	9023608	6	US-09-925-065A-713423	Sequence 713423, App
C 887	13.8	76.7	11186	3	US-09-957-997-1	Sequence 1, Appli	C 960	13.8	76.7	970	4	US-10-262-839-239	Sequence 239, App
C 888	13.8	76.7	11186	9	US-10-415-607-4	Sequence 4, Appli	C 961	13.8	76.7	970	20	US-10-210-172-217	Sequence 217, App
C 889	13.8	76.7	12660	6	US-10-085-198-1	Sequence 1, Appli	C 962	13.8	76.7	970	25	US-10-717-597-3421	Sequence 3421, Ap
C 890	13.8	76.7	12884	8	US-10-741-600-17634	Sequence 17634, A	C 963	13.8	76.7	970	25	US-10-717-597-3422	Sequence 3422, Ap
C 891	13.8	76.7	13339	10	US-11-097-143-8593	Sequence 8593, Ap	C 964	13.8	76.7	970	25	US-10-717-597-3423	Sequence 3423, Ap
C 892	13.8	76.7	13370	8	US-10-451-503A-3	Sequence 3, Appli	C 965	13.8	76.7	970	25	US-10-717-597-3424	Sequence 3424, Ap
C 893	13.8	76.7	13440	5	US-10-213-948-12	Sequence 12, Appl	C 966	13.8	76.7	970	25	US-10-717-597-3425	Sequence 3425, Ap
C 894	13.8	76.7	13686	9	US-10-450-763-30194	Sequence 30194, A	C 967	13.8	76.7	970	25	US-10-717-597-3426	Sequence 3426, Ap
C 895	13.8	76.7	13886	7	US-10-672-764A-68	Sequence 68, Appl	C 968	13.8	76.7	970	25	US-10-681-773-22061	Sequence 22061, A
C 896	13.8	76.7	14399	7	US-10-287-226-321	Sequence 321, App	C 969	13.8	76.7	970	25	US-10-681-773-42277	Sequence 42277, A
C 897	13.8	76.7	18750	8	US-10-719-993-6900	Sequence 6900, Ap	C 970	13.8	76.7	970	25	US-10-681-773-42769	Sequence 42769, A
C 898	13.8	76.7	19864	8	US-10-741-600-17585	Sequence 17585, A	C 971	13.8	76.7	970	25	US-10-719-956-108145	Sequence 108145, Sequence 135962,
C 899	13.8	76.7	23208	8	US-10-741-600-17814	Sequence 17814, A	C 972	13.8	76.7	970	25	US-10-719-956-135962	Sequence 135962,

Sequence 138598,
Sequence 243607,
Sequence 33228,
Sequence 490745,
Sequence 638552,
Sequence 122815,
Sequence 645952,
Sequence 929692,
Sequence 195529,
Sequence 314563,
Sequence 344034,
Sequence 344283,
Sequence 344301,
Sequence 386448,
Sequence 386540,
Sequence 401935,
Sequence 507481,
Sequence 589632,
Sequence 868149,
Sequence 71835, A
Sequence 1210, Ap
Sequence 1211, Ap
Sequence 38898, A
Sequence 101345,
Sequence 17891, A
Sequence 14360, A
Sequence 19091, A

7 US-10-719-956-138598
25 7 US-10-719-956-243607
25 7 US-10-719-956-33228
25 7 US-10-719-956-490745
25 7 US-10-719-956-638552
25 8 US-10-719-900-122815
25 8 US-10-719-900-645952
25 8 US-10-719-900-929692
25 10 US-11-036-317-195529
25 10 US-11-036-317-314563
25 10 US-11-036-317-344034
25 10 US-11-036-317-344283
25 10 US-11-036-317-344301
25 10 US-11-036-317-386448
25 10 US-11-036-317-386540
25 10 US-11-036-317-401935
25 10 US-11-036-317-507481
25 10 US-11-036-317-589632
25 10 US-11-036-317-868149
149 7 US-10-424-599-71835
157 7 US-10-430-201-1210
157 7 US-10-430-201-1211
184 7 US-10-437-963-38898
198 7 US-10-437-963-101345
199 7 US-10-242-535A-17891
199 7 US-10-085-783A-17891
201 8 US-10-719-993-14360
201 8 US-10-719-993-19091

ALIGNMENTS

RESULT 1
US-10-085-612-4
; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4

Query Match 91.1%; Score 16.4; DB 5; Length 1254;
Best Local Similarity 94.4%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18
| | | | | | | | | | | | | | | | | | | | | |
Db 691 GGGTCTGTCTGGCTGGCG 708

RESULT 2
US-09-925-065A-675137
; Sequence 675137, Application US/09925065A

; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 675137
; LENGTH: 2214
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-675137

Query Match 91.1%; Score 16.4; DB 4; Length 2214;
Best Local Similarity 94.4%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18
| | | | | | | | | | | | | | | | | | | | | |
Db 653 GGGTCTGTCTGGCTGGCG 670

RESULT 3
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 660
; LENGTH: 177531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-660

Query Match 91.1%; Score 16.4; DB 8; Length 177531;
Best Local Similarity 94.4%; Pred. No. 84;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18
| | | | | | | | | | | | | | | | | | | | | |
Db 15424 GGGTCTGTCTGGCTGGCG 15441

RESULT 4
US-10-501-282-1203
; Sequence 1203, Application US/10501282
; Publication No. US20050203280A1
; GENERAL INFORMATION:

APPLICANT: MCMICHAEL, JOHN CALHOUN
APPLICANT: ZAGURSKY, ROBERT JOHN
APPLICANT: RUSSELL, DAVID PARRISH
APPLICANT: FLETCHER, LEAH DIANE
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
TITLE OF INVENTION: POLYPEPTIDE ANTIGENS, IMMUNOGENIC COMPOSITIONS AND USES THEREOF
FILE REFERENCE: AM100780 L2
CURRENT APPLICATION NUMBER: US/10/501,282
CURRENT FILING DATE: 2004-07-09
PRIOR APPLICATION NUMBER: 60/333,777
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: 60/426,742
PRIOR FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: PCT/US02/36123
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 6653
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1203
LENGTH: 360
TYPE: DNA
ORGANISM: Alloiococcus otitidis
FEATURE:
NAME/KEY: CDS
LOCATION: (73)..(357)
US-10-501-282-1203

Query Match 88.9%; Score 16; DB 9; Length 360;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 302 GGGTCTGCTGGCTGC 317

RESULT 5
US-10-501-282-1201
Sequence 1201, Application US/10501282
Publication No. US20050203280A1
GENERAL INFORMATION:
APPLICANT: MCMICHAEL, JOHN CALHOUN
APPLICANT: ZAGURSKY, ROBERT JOHN
APPLICANT: RUSSELL, DAVID PARRISH
APPLICANT: FLETCHER, LEAH DIANE
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
TITLE OF INVENTION: POLYPEPTIDE ANTIGENS, IMMUNOGENIC COMPOSITIONS AND USES THEREOF
FILE REFERENCE: AM100780 L2
CURRENT APPLICATION NUMBER: US/10/501,282
CURRENT FILING DATE: 2004-07-09
PRIOR APPLICATION NUMBER: 60/333,777
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: 60/426,742
PRIOR FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: PCT/US02/36123
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 6653
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1201
LENGTH: 483
TYPE: DNA
ORGANISM: Alloiococcus otitidis
FEATURE:
NAME/KEY: CDS
LOCATION: (25)..(480)
US-10-501-282-1201

Query Match 88.9%; Score 16; DB 9; Length 483;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 375 GGGTCTGCTGGCTGC 390

RESULT 6

US-10-501-282-1209/c
Sequence 1209, Application US/10501282
Publication No. US20050203280A1
GENERAL INFORMATION:
APPLICANT: MCMICHAEL, JOHN CALHOUN
APPLICANT: ZAGURSKY, ROBERT JOHN
APPLICANT: RUSSELL, DAVID PARRISH
APPLICANT: FLETCHER, LEAH DIANE
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
TITLE OF INVENTION: POLYPEPTIDE ANTIGENS, IMMUNOGENIC COMPOSITIONS AND USES THEREOF
FILE REFERENCE: AM100780 L2
CURRENT APPLICATION NUMBER: US/10/501,282
CURRENT FILING DATE: 2004-07-09
PRIOR APPLICATION NUMBER: 60/333,777
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: 60/426,742
PRIOR FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: PCT/US02/36123
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 6653
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1209
LENGTH: 1065
TYPE: DNA
ORGANISM: Alloiococcus otitidis
FEATURE:
NAME/KEY: CDS
LOCATION: (19)..(1062)
US-10-501-282-1209

Query Match 88.9%; Score 16; DB 9; Length 1065;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 55 GGGTCTGCTGGCTGC 40

RESULT 7

US-10-501-282-1211/c
Sequence 1211, Application US/10501282
Publication No. US20050203280A1
GENERAL INFORMATION:
APPLICANT: MCMICHAEL, JOHN CALHOUN
APPLICANT: ZAGURSKY, ROBERT JOHN
APPLICANT: RUSSELL, DAVID PARRISH
APPLICANT: FLETCHER, LEAH DIANE
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
TITLE OF INVENTION: POLYPEPTIDE ANTIGENS, IMMUNOGENIC COMPOSITIONS AND USES THEREOF
FILE REFERENCE: AM100780 L2
CURRENT APPLICATION NUMBER: US/10/501,282
CURRENT FILING DATE: 2004-07-09
PRIOR APPLICATION NUMBER: 60/333,777
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: 60/426,742
PRIOR FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: PCT/US02/36123
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 6653
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1211
LENGTH: 1065
TYPE: DNA
ORGANISM: Alloiococcus otitidis
FEATURE:
NAME/KEY: CDS
LOCATION: (13)..(1062)
US-10-501-282-1211

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Query Match      88.9%; Score 16; DB 9; Length 1065;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
Db 55 GGGTCTGTCTGGCTGC 40

RESULT 8
US-10-501-282-6651/c
; Sequence 6651, Application US/10501282
; Publication No. US20050203280A1
; GENERAL INFORMATION:
; APPLICANT: MCMICHAEL, JOHN CALHOUN
; APPLICANT: ZAGURSKI, ROBERT JOHN
; APPLICANT: RUSSELL, DAVID PARRISH
; APPLICANT: FLETCHER, LEAH DIANE
; TITLE OF INVENTION: ALLOTOCOCCLUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
; FILE REFERENCE: AM100780 L2
; CURRENT APPLICATION NUMBER: US/10/501,282
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: 60/333,777
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 60/426,742
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: PCT/US02/36123
; PRIOR FILING DATE: 2002-11-25
; NUMBER OF SEQ ID NOS: 6653
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6651
; LENGTH: 1754382
; TYPE: DNA
; ORGANISM: Alloiooccus otitidis
US-10-501-282-6651

Query Match      88.9%; Score 16; DB 9; Length 1754382;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
Db 280060 GGGTCTGTCTGGCTGC 280045

RESULT 9
US-09-925-065A-81543
; Sequence 81543, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81543
; LENGTH: 662
; TYPE: DNA
; ORGANISM: Homo sapiens
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```
US-09-925-065A-81543

Query Match      85.6%; Score 15.4; DB 4; Length 662;
Best Local Similarity 94.1%; Pred. No. 5.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGTCTGTCTGGCTGCG 18
Db 611 GGTCTGTCTGGCTGCG 627

RESULT 10
US-10-027-632-168189/c
; Sequence 168189, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 168189
; LENGTH: 913
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-168189

Query Match      85.6%; Score 15.4; DB 5; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17
Db 136 GGGCTGTCTGGCTGCG 120

RESULT 11
US-10-027-632-168190/c
; Sequence 168190, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
```

```
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 168190
; LENGTH: 913
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-168190

Query Match      85.6%; Score 15.4; DB 5; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTGTCTGGCTGCG 17
   ||| ||||| ||||| |||||
Db 136 GGGCCTGTCTGGCTGCG 120

RESULT 12
US-10-027-632-168189/c
; Sequence 168189, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/195,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 168189
; LENGTH: 913
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-168189

Query Match      85.6%; Score 15.4; DB 6; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTGTCTGGCTGCG 17
   ||| ||||| ||||| |||||
Db 136 GGGCCTGTCTGGCTGCG 120

RESULT 13
US-10-027-632-168190/c
; Sequence 168190, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
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; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 168190
; LENGTH: 913
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-168190

Query Match      85.6%; Score 15.4; DB 6; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTGTCTGGCTGCG 17
   ||| ||||| ||||| |||||
Db 136 GGGCCTGTCTGGCTGCG 120

RESULT 14
US-09-925-065A-287488/c
; Sequence 287488, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 287488
; LENGTH: 1064
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-287488

Query Match      85.6%; Score 15.4; DB 4; Length 1064;
Best Local Similarity 94.1%; Pred. No. 4.9e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGCG 18
   ||||| ||||| ||||| |||||
Db 289 GGTCTGTCTGGCTGCTC 273

RESULT 15
US-10-282-122A-31757/c
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```

; Sequence 31757, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31757
; LENGTH: 1896
; TYPE: DNA
; ORGANISM: Pseudomonas putida
; US-10-282-122A-31757

Query Match      85.6%; Score 15.4; DB 7; Length 1896;
Best Local Similarity 94.1%; Pred. No. 4.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGTCTGGCTGCGC 18
        ||||| ||||| |||||
DB      766 GGTCTGCTGGCTGCGC 750

RESULT 16
US-10-001-192A-18
; Sequence 18, Application US/10001192A
; Publication No. US20040091958A1
; GENERAL INFORMATION:
; APPLICANT: Ooijen, Albert
; APPLICANT: Verdoes, Jan
; APPLICANT: Wery, Jan
; TITLE OF INVENTION: IMPROVED METHODS FOR TRANSFORMING PHAFFIA STRAINS, TRANSFORMED PHAFFIA STRAINS SO OBTAINED AND RECOMBINANT DNA IN SAID METHODS
; FILE REFERENCE: 24615-20104.01
; CURRENT APPLICATION NUMBER: US/10/001,192A
; CURRENT FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/202-06-11
; PRIOR FILING DATE: 1995-12-22
; PRIOR APPLICATION NUMBER: EP 95203620.0
; PRIOR FILING DATE: 1995-12-22
; PRIOR APPLICATION NUMBER: EP96200943.7
; PRIOR FILING DATE: 1996-04-11
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2546
; TYPE: DNA
; ORGANISM: Phaffia rhodozyma
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (225)...(2246)
US-10-001-192A-12

Query Match      85.6%; Score 15.4; DB 7; Length 2546;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGTCTGTCTGGCTGCG 17
        ||||| ||||| |||||
DB      956 GGTCTGTCTGGCTGCG 972

RESULT 17
US-10-001-192A-12
; Sequence 12, Application US/10001192A
; Publication No. US20040091958A1
; GENERAL INFORMATION:
; APPLICANT: Ooijen, Albert
; APPLICANT: Verdoes, Jan
; APPLICANT: Wery, Jan
; TITLE OF INVENTION: IMPROVED METHODS FOR TRANSFORMING PHAFFIA STRAINS, TRANSFORMED PHAFFIA STRAINS SO OBTAINED AND RECOMBINANT DNA IN SAID METHODS
; FILE REFERENCE: 24615-20104.01
; CURRENT APPLICATION NUMBER: US/10/001,192A
; CURRENT FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: EP 95203620.0
; PRIOR FILING DATE: 1995-12-22
; PRIOR APPLICATION NUMBER: EP96200943.7
; PRIOR FILING DATE: 1996-04-11
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2546
; TYPE: DNA
; ORGANISM: Phaffia rhodozyma
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (225)...(2246)
US-10-001-192A-18

Query Match      85.6%; Score 15.4; DB 7; Length 2470;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGTCTGTCTGGCTGCG 17
        ||||| ||||| |||||
DB      908 GGTCTGTCTGGCTGCG 924

RESULT 18
US-10-282-122A-26645
; Sequence 26645, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John

```



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; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26645
; LENGTH: 2625
; TYPE: DNA
; ORGANISM: Mycobacterium bovis
US-10-282-122A-26645

Query Match      85.6%; Score 15.4; DB 7; Length 2625;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGCG 17
DB      432 GGATCTGCTGGCTGCG 448

RESULT 19
US-10-282-122A-28335
; Sequence 28335, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
```

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; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28335
; LENGTH: 2628
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-28335
```

```
Query Match      85.6%; Score 15.4; DB 7; Length 2628;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGCG 17
DB      432 GGATCTGCTGGCTGCG 448
```

```
RESULT 20
US-10-041-859-1
; Sequence 1, Application US/10041859
; Publication No. US20030049796A1
; GENERAL INFORMATION:
; APPLICANT: HUANG, QIHONG
; APPLICANT: REED, JOHN C.
; APPLICANT: DEVERAUX, QUINN L.
; APPLICANT: MAEDA, SUSUMU
; TITLE OF INVENTION: INHIBITOR OF APOPTOSIS PROTEINS AND NUCLEIC ACIDS AND
; FILE REFERENCE: METHODS FOR MAKING AND USING THEM
; FILE REFERENCE: 087102/027 2537
; CURRENT APPLICATION NUMBER: US/10/041,859
; CURRENT FILING DATE: 2002-01-07
; PRIOR APPLICATION NUMBER: 60/260,478
; PRIOR FILING DATE: 2001-01-08
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1773
; TYPE: DNA
; ORGANISM: Bombyx mori
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2733)..(3770)
US-10-041-859-1
```

```
Query Match      85.6%; Score 15.4; DB 5; Length 3773;
Best Local Similarity 94.1%; Pred. No. 4.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGCG 17
DB      75 GGTTCTGCTGGCTGCG 91
```

```
RESULT 21
US-10-749-104-21
; Sequence 21, Application US/10749104
; Publication No. US20040265274A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Shen Zhen Tsinghua Yuanxing Bio-Pharm Science & Technology Co., Ltd.
; TITLE OF INVENTION: Anti-Tumor Molecular Vaccine and Method of making thereof
; FILE REFERENCE: CGCN31755
; CURRENT APPLICATION NUMBER: US/10/749,104
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: CN02159602.6
; PRIOR FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: 1-O(Drosophila melanogaster)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(3630)
; OTHER INFORMATION:
US-10-749-104-21

Query Match      85.6%; Score 15.4; DB 8; Length 4134;
Best Local Similarity 94.1%; Pred. No. 4.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCG 17
        ||| ||||| ||||| |||||
Db      2574 GGCTCTGTCTGGCTGCG 2590

RESULT 22
US-10-749-104-23
; Sequence 23, Application US/10749104
; Publication No. US20040265274A1
; GENERAL INFORMATION:
; APPLICANT: Shen Zhen Tsinghua Yuanxing Bio-Pharm Science & Technology Co., Ltd.
; TITLE OF INVENTION: Anti-Tumor Molecular Vaccine and Method of making thereof
; FILE REFERENCE: CGCN31755
; CURRENT APPLICATION NUMBER: US/10/749,104
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: CN02159602.6
; PRIOR FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 4281
; TYPE: DNA
; ORGANISM: 1-O(Drosophila melanogaster)
US-10-749-104-23

Query Match      85.6%; Score 15.4; DB 8; Length 4281;
Best Local Similarity 94.1%; Pred. No. 4.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCG 17
        ||| ||||| ||||| |||||
Db      2721 GGCTCTGTCTGGCTGCG 2737

RESULT 23
US-10-749-104-24
; Sequence 24, Application US/10749104
; Publication No. US20040265274A1
; GENERAL INFORMATION:
; APPLICANT: Shen Zhen Tsinghua Yuanxing Bio-Pharm Science & Technology Co., Ltd.
; TITLE OF INVENTION: Anti-Tumor Molecular Vaccine and Method of making thereof
; FILE REFERENCE: CGCN31755
; CURRENT APPLICATION NUMBER: US/10/749,104
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: CN02159602.6
; PRIOR FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 4281
```

```
; TYPE: DNA
; ORGANISM: E (Rattus norvegicus)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(3627)
; OTHER INFORMATION:
US-10-749-104-24

Query Match      85.6%; Score 15.4; DB 8; Length 4281;
Best Local Similarity 94.1%; Pred. No. 4.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCG 17
        ||| ||||| ||||| |||||
Db      2721 GGCTCTGTCTGGCTGCG 2737

RESULT 24
US-09-764-869-1740/c
; Sequence 1740, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764,869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1740
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-869-1740

Query Match      85.6%; Score 15.4; DB 3; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCGC 18
        ||||| ||||| ||||| |||||
Db      587 GGTCTGTCTGGCTCGC 571

RESULT 25
US-09-764-891-5912/c
; Sequence 5912, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5912
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-5912

Query Match      85.6%; Score 15.4; DB 3; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCGC 18
        ||||| ||||| ||||| |||||
Db      587 GGTCTGTCTGGCTCGC 571
```

```
RESULT 26
US-10-091-504-1740/c
; Sequence 1740, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C1
; CURRENT APPLICATION NUMBER: US/10/091.504
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 2442
; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1740
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-091-504-1740

Query Match      85.6%; Score 15.4; DB 5; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
      |||||
Db      587 GGTCTGCTGGCTCCGC 571

RESULT 27
US-10-227-577-1740/c
; Sequence 1740, Application US/10227577
; Publication No. US20040005575A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C2
; CURRENT APPLICATION NUMBER: US/10/227.577
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/091.504
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 09/764.869
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179.065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180.628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214.886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217.487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225.758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220.963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217.496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225.447
; PRIOR FILING DATE: 2000-08-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1740
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-227-577-1740

Query Match      85.6%; Score 15.4; DB 6; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
      |||||
Db      587 GGTCTGCTGGCTCCGC 18

RESULT 28
US-09-764-869-1738/c
; Sequence 1738, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764.869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1738
; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-869-1738

Query Match      85.6%; Score 15.4; DB 3; Length 7911;
Best Local Similarity 94.1%; Pred. No. 3.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
      |||||
Db      2465 GGTCTGCTGGCTCCGC 2449

RESULT 29
US-09-764-891-5911/c
; Sequence 5911, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764.891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5911
; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-5911

Query Match      85.6%; Score 15.4; DB 3; Length 7911;
Best Local Similarity 94.1%; Pred. No. 3.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
      |||||
Db      2465 GGTCTGCTGGCTCCGC 2449

RESULT 30
US-10-091-504-1738/c
; Sequence 1738, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C1
; CURRENT APPLICATION NUMBER: US/10/091.504
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 2442
; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1738
```

```
; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-091-504-1738

Query Match      85.6%; Score 15.4; DB 5; Length 7911;
Best Local Similarity 94.1%; Pred. No. 3.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTCGC 18
Db      2465 GGTCTGTCTGGCTCGC 2449

RESULT 31
US-10-227-577-1738/c
; Sequence 1738, Application US/10227577
; Publication No. US20040005575A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C2
; CURRENT APPLICATION NUMBER: US/10/227,577
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/091,504
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 09/764,859
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1738
; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-227-577-1738

Query Match      85.6%; Score 15.4; DB 6; Length 7911;
Best Local Similarity 94.1%; Pred. No. 3.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTCGC 18
Db      2465 GGTCTGTCTGGCTCGC 2449

RESULT 32
US-10-779-543-21329/c
; Sequence 21329, Application US/10779543
; Publication No. US20050227917A1
; GENERAL INFORMATION:
; APPLICANT: Williams et al
; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
; FILE REFERENCE: 2300-21302
; CURRENT APPLICATION NUMBER: US/10/779,543
; CURRENT FILING DATE: 2004-02-12

; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-027-632-95731/c
; Sequence 95731, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95731
; LENGTH: 588
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-95731

Query Match      83.3%; Score 15; DB 5; Length 588;
Best Local Similarity 100.0%; Pred. No. 8.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTG 15
|||||
Db 370 GGGTCTGTCTGGCTG 356

RESULT 34

US-10-027-632-305919/c
; Sequence 305919, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 305919
; LENGTH: 588
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-305919

Query Match 83.3%; Score 15; DB 5; Length 588;

Best Local Similarity 100.0%; Pred. No. 8.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTG 15
|||||
Db 370 GGGTCTGTCTGGCTG 356

RESULT 35

US-10-027-632-95731/c
; Sequence 95731, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002

; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95731
; LENGTH: 588
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-95731

Query Match 83.3%; Score 15; DB 6; Length 588;
Best Local Similarity 100.0%; Pred. No. 8.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTG 15
|||||
Db 370 GGGTCTGTCTGGCTG 356

RESULT 36

US-10-027-632-305919/c
; Sequence 305919, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 305919
; LENGTH: 588
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-305919

Query Match 83.3%; Score 15; DB 6; Length 588;
Best Local Similarity 100.0%; Pred. No. 8.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTG 15
|||||
Db 370 GGGTCTGTCTGGCTG 356

RESULT 37

US-10-425-115-26760/c
; Sequence 26760, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 26760
; LENGTH: 2706
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_124414C.1
US-10-425-115-26760

Query Match 83.3%; Score 15; DB 8; Length 2706;
Best Local Similarity 100.0%; Pred. No. 6.9e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGTCTGGCTGC 16

Db 330 GGCTGTCTGGCTGC 316

RESULT 38

US-10-719-956-132460
; Sequence 132460, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:

; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; CURRENT APPLICATION NUMBER: US/10/719,956

; FILE REFERENCE: 3527.1
; CURRENT FILING DATE: 2003-11-20

; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20

; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

; SEQ ID NO 132460
; LENGTH: 25

; TYPE: DNA
; ORGANISM: Rattus norvegicus

US-10-719-956-132460

Query Match 82.2%; Score 14.8; DB 7; Length 25;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 18

Db 4 GGGTCTGTATGGCTGTGC 21

RESULT 39

US-10-719-900-651065/c

; Sequence 651065, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:

; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900

; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808

; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 651065

; LENGTH: 25
; TYPE: DNA

; ORGANISM: Mus musculus
US-10-719-900-651065

Query Match 82.2%; Score 14.8; DB 8; Length 25;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 18

Db 25 GTGTCTGTCTGTCTGC 8

RESULT 40

US-10-702-075-396/c

; Sequence 396, Application US/10702075
; Publication No. US20040168209A1
; GENERAL INFORMATION:

; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian

; APPLICANT: Sands, Arthur I.
; TITLE OF INVENTION: Novel Murine Polynucleotide Sequences

; FILE REFERENCE: LEX-0192-US
; CURRENT APPLICATION NUMBER: US/10/702,075

; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: 09/880,687

; PRIOR FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: US 60/211,232

; PRIOR FILING DATE: 2000-06-12
; NUMBER OF SEQ ID NOS: 1159

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 396

; LENGTH: 257
; TYPE: DNA

; ORGANISM: Mus musculus
; FEATURE:

; NAME/KEY: misc feature
; LOCATION: (1)..(257)

; OTHER INFORMATION: n = A,T,C or G
US-10-702-075-396

Query Match 82.2%; Score 14.8; DB 7; Length 257;
Best Local Similarity 88.9%; Pred. No. 1.2e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 18

Db 118 GGGCTGTCTGGCTGTGC 101

RESULT 41

US-10-242-535A-595/c

; Sequence 595, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:

; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.

; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A

; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783

; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340

; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017

; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955

; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 595

; LENGTH: 270
; TYPE: DNA

; ORGANISM: Human
US-10-242-535A-595

Query Match 82.2%; Score 14.8; DB 7; Length 270;
Best Local Similarity 88.9%; Pred. No. 1.2e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGCGC 18
|||||
Db 23 GGGTCTGCTGGCTCCTC 6

RESULT 42

US-10-085-783A-595/c
; Sequence 595, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 595
; LENGTH: 270
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-595

Query Match 82.2%; Score 14.8; DB 7; Length 270;
Best Local Similarity 88.9%; Pred. No. 1.2e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGCGC 18
|||||
Db 23 GGGTCTGCTGGCTCCTC 6

RESULT 43

US-10-425-115-166794/c
; Sequence 166794, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 166794
; LENGTH: 348
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_83694C.1
US-10-425-115-166794

Query Match 82.2%; Score 14.8; DB 8; Length 348;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGCGC 18
|||||
Db 56 GCGTCTGCTGCTGCGC 39

RESULT 44

US-10-425-115-24643/c

; Sequence 24643, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 24643
; LENGTH: 422
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_122482C.1
US-10-425-115-24643

Query Match 82.2%; Score 14.8; DB 8; Length 422;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGCGC 18
|||||
Db 304 GGCTCGTCTGGCTGCGC 287

RESULT 45

US-09-918-995-28345
; Sequence 28345, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 28345
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(474)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-28345

Query Match 82.2%; Score 14.8; DB 3; Length 474;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGCGC 18
|||||
Db 440 GGGTCTGCTGCTGCGAC 457

RESULT 46

US-09-925-065A-219275
; Sequence 219275, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135

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; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 219275
; LENGTH: 478
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-219275

Query Match      82.2%; Score 14.8; DB 4; Length 478;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGCGC 18
   ||| ||||| ||||| |||
Db 47 GGCTCTGCTGGCTGCTC 64

RESULT 47
US-09-925-065A-219276
; Sequence 219276, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 219276
; LENGTH: 478
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-219276

Query Match      82.2%; Score 14.8; DB 4; Length 478;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGCGC 18
   ||| ||||| ||||| |||
Db 47 GGCTCTGCTGGCTGCTC 64

RESULT 48
US-09-918-995-27482/c
; Sequence 27482, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: Identification and Mapping of Single
```

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; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 27482
; LENGTH: 484
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(484)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-27482

Query Match      82.2%; Score 14.8; DB 3; Length 484;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGCGC 18
   ||| ||||| ||||| |||
Db 181 GGGTCTGCTGGCTCCTC 164

RESULT 49
US-09-925-065A-471687/c
; Sequence 471687, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 471687
; LENGTH: 486
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-471687

Query Match      82.2%; Score 14.8; DB 4; Length 486;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGCGC 18
   ||| ||||| ||||| |||
Db 90 GGGTCTGCTGCTGCGAC 73

RESULT 50
US-09-925-065A-471688/c
; Sequence 471688, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
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; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 471688
; LENGTH: 486
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-471688

Query Match 82.2%; Score 14.8; DB 4; Length 486;
Best Local Similarity 88.9%; Pred.No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGTGGCGC 18
||| ||||| |||||
Db 90 GGGTCTGCTGCTGGCAC 73

Search completed: January 11, 2006, 04:37:17
Job time : 398.364 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 365.636 Seconds
(without alignments)
39.844 Million cell updates/sec

Title: US-09-869-169C-11
Perfect score: 18
Sequence: 1 ggggtgtctggtgcgc 18

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_NA_New.*

- 1: /cgn2_6/prodata/2/pubpna/US08_NEW_PUB.seq.*
- 2: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq.*
- 3: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq.*
- 4: /cgn2_6/prodata/2/pubpna/PCT_NEW_PUB.seq.*
- 5: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq.*
- 6: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq.*
- 7: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq.*
- 8: /cgn2_6/prodata/2/pubpna/US12_NEW_PUB.seq.*
- 9: /cgn2_6/prodata/2/pubpna/US13_NEW_PUB.seq.*
- 10: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15.4	85.6	2883	6	US-10-750-185-48505 Sequence 48505, A
2	15.4	85.6	2883	6	US-10-750-623-48505 Sequence 48505, A
3	15	83.3	1619	6	US-10-750-185-34411 Sequence 34411, A
4	15	83.3	1619	6	US-10-750-623-34411 Sequence 34411, A
5	15	83.3	3137	6	US-10-750-185-61405 Sequence 61405, A
6	15	83.3	3137	6	US-10-750-623-61405 Sequence 61405, A
7	14.8	82.2	20	6	US-10-310-914A-1178608 Sequence 1178608, A
8	14.8	82.2	21	6	US-10-310-914A-1178611 Sequence 1178611, A
9	14.8	82.2	23	6	US-10-310-914A-961492 Sequence 961492, A
10	14.8	82.2	23	6	US-10-310-914A-1178585 Sequence 1178585, A
11	14.8	82.2	24	6	US-10-310-914A-1178603 Sequence 1178603, A
12	14.8	82.2	600	6	US-10-750-185-1996 Sequence 1996, A
13	14.8	82.2	600	6	US-10-750-623-1996 Sequence 1996, A
14	14.8	82.2	780	6	US-10-453-372-815 Sequence 815, A
15	14.8	82.2	840	6	US-10-453-372-813 Sequence 813, A
16	14.8	82.2	1567	6	US-10-750-185-43064 Sequence 43064, A
17	14.8	82.2	1567	6	US-10-750-623-43064 Sequence 43064, A
18	14.8	82.2	1977	7	US-11-136-527-2881 Sequence 2881, A
19	14.8	82.2	2919	7	US-10-955-054A-180 Sequence 180, A
20	14.8	82.2	18171	7	US-11-136-527-3735 Sequence 3735, A
21	14.8	82.2	153376	7	US-11-121-086-5 Sequence 5, A
22	14.4	80.0	201	6	US-10-995-561-28757 Sequence 28757, A
23	14.4	80.0	201	6	US-10-995-561-71684 Sequence 71684, A

97	13.4	74.4	171	6	US-10-467-657-1451	Sequence 1451, Ap	170	13.2	73.3	20	6	US-10-310-914A-97908	Sequence 97908, A
c 98	13.4	74.4	201	6	US-10-995-561-25045	Sequence 25045, A	171	13.2	73.3	22	6	US-10-310-914A-97910	Sequence 97910, A
99	13.4	74.4	201	6	US-10-995-561-62998	Sequence 62998, A	c 172	13.2	73.3	22	6	US-10-310-914A-247426	Sequence 247426, A
100	13.4	74.4	201	7	US-11-124-368A-5038	Sequence 5038, Ap	c 173	13.2	73.3	22	6	US-10-310-914A-1011877	Sequence 1011877, A
101	13.4	74.4	201	7	US-11-124-368A-12329	Sequence 12329, A	c 174	13.2	73.3	23	6	US-10-310-914A-790917	Sequence 790917, A
102	13.4	74.4	201	7	US-11-124-368A-18438	Sequence 18438, A	c 175	13.2	73.3	23	6	US-10-310-914A-873619	Sequence 873619, A
c 103	13.4	74.4	492	6	US-10-467-657-1449	Sequence 1449, Ap	c 176	13.2	73.3	23	6	US-10-310-914A-948929	Sequence 948929, A
104	13.4	74.4	492	6	US-10-750-185-19817	Sequence 19817, Ap	c 177	13.2	73.3	24	6	US-10-310-914A-948929	Sequence 948929, A
105	13.4	74.4	600	6	US-10-750-185-19817	Sequence 19817, A	c 178	13.2	73.3	25	6	US-10-310-914A-121491	Sequence 121491, A
106	13.4	74.4	600	6	US-10-750-185-19817	Sequence 19817, A	c 178	13.2	73.3	25	6	US-10-310-914A-247427	Sequence 247427, A
107	13.4	74.4	740	6	US-10-750-185-28002	Sequence 28002, A	c 179	13.2	73.3	25	6	US-10-310-914A-624773	Sequence 624773, A
108	13.4	74.4	740	6	US-10-750-185-28002	Sequence 28002, A	c 180	13.2	73.3	25	6	US-10-310-914A-667367	Sequence 667367, A
109	13.4	74.4	935	6	US-10-750-185-57698	Sequence 57698, A	c 181	13.2	73.3	26	6	US-10-310-914A-247409	Sequence 247409, A
110	13.4	74.4	935	6	US-10-750-185-57698	Sequence 57698, A	c 182	13.2	73.3	26	6	US-10-310-914A-948988	Sequence 948988, A
111	13.4	74.4	990	6	US-10-750-185-31932	Sequence 31932, A	c 183	13.2	73.3	28	6	US-10-310-914A-1011824	Sequence 1011824, A
112	13.4	74.4	990	6	US-10-750-185-31932	Sequence 31932, A	c 184	13.2	73.3	28	6	US-10-310-914A-10430	Sequence 10430, A
113	13.4	74.4	992	6	US-10-750-185-55529	Sequence 55529, A	c 185	13.2	73.3	28	6	US-10-310-914A-10014	Sequence 10014, A
114	13.4	74.4	992	6	US-10-750-185-55529	Sequence 55529, A	c 186	13.2	73.3	28	6	US-10-995-561-56811	Sequence 56811, A
115	13.4	74.4	1293	6	US-10-517-939-79	Sequence 79, Appl	c 187	13.2	73.3	201	7	US-11-124-368A-10070	Sequence 10070, A
116	13.4	74.4	1416	6	US-10-995-561-512	Sequence 512, App	c 188	13.2	73.3	492	6	US-10-802-796-587	Sequence 587, App
117	13.4	74.4	1450	6	US-10-750-185-32371	Sequence 32371, A	c 189	13.2	73.3	519	7	US-11-136-527-413	Sequence 413, App
118	13.4	74.4	1507	6	US-10-750-185-32371	Sequence 32371, A	c 190	13.2	73.3	519	7	US-11-136-527-4509	Sequence 4509, Ap
119	13.4	74.4	1542	6	US-10-995-561-511	Sequence 511, App	c 191	13.2	73.3	519	7	US-11-064-774A-116	Sequence 116, App
120	13.4	74.4	1542	6	US-10-750-185-48265	Sequence 48265, A	c 192	13.2	73.3	582	7	US-11-052-554A-460	Sequence 460, App
121	13.4	74.4	1542	6	US-10-750-185-48265	Sequence 48265, A	c 193	13.2	73.3	582	7	US-10-750-185-56431	Sequence 56431, A
122	13.4	74.4	1554	6	US-10-750-185-32951	Sequence 32951, A	c 194	13.2	73.3	587	6	US-10-750-623-56431	Sequence 56431, A
c 123	13.4	74.4	1554	6	US-10-750-623-32951	Sequence 32951, A	c 195	13.2	73.3	587	6	US-10-750-185-62527	Sequence 62527, A
c 124	13.4	74.4	1591	6	US-10-750-185-43062	Sequence 43062, A	c 196	13.2	73.3	664	6	US-10-750-623-62527	Sequence 62527, A
125	13.4	74.4	1661	6	US-10-453-372-1163	Sequence 1163, Ap	c 197	13.2	73.3	681	6	US-10-467-657-5033	Sequence 5033, Ap
126	13.4	74.4	1790	6	US-10-453-372-1163	Sequence 1163, Ap	c 198	13.2	73.3	774	6	US-10-750-185-36514	Sequence 36514, A
127	13.4	74.4	1790	6	US-10-453-372-1171	Sequence 1171, Ap	c 199	13.2	73.3	774	6	US-10-750-623-36514	Sequence 36514, A
128	13.4	74.4	1814	6	US-10-453-372-1159	Sequence 1159, Ap	c 200	13.2	73.3	800	6	US-10-750-185-28758	Sequence 28758, A
129	13.4	74.4	1814	6	US-10-453-372-1165	Sequence 1165, Ap	c 201	13.2	73.3	800	6	US-10-750-623-28758	Sequence 28758, A
130	13.4	74.4	1886	6	US-10-750-185-24514	Sequence 24514, A	c 202	13.2	73.3	875	6	US-10-750-185-25975	Sequence 25975, A
131	13.4	74.4	1886	6	US-10-750-623-24514	Sequence 24514, A	c 203	13.2	73.3	875	6	US-10-750-623-25975	Sequence 25975, A
132	13.4	74.4	2018	6	US-10-453-372-1155	Sequence 1155, Ap	c 204	13.2	73.3	966	6	US-10-750-185-62450	Sequence 62450, A
c 133	13.4	74.4	2337	6	US-10-821-234-424	Sequence 424, App	c 205	13.2	73.3	966	6	US-10-750-623-62450	Sequence 62450, A
134	13.4	74.4	2432	6	US-10-750-185-32418	Sequence 32418, A	c 206	13.2	73.3	982	6	US-10-750-185-59822	Sequence 59822, A
135	13.4	74.4	2432	6	US-10-750-623-32418	Sequence 32418, A	c 207	13.2	73.3	982	6	US-10-750-623-59822	Sequence 59822, A
136	13.4	74.4	2819	6	US-10-453-372-1157	Sequence 1157, Ap	c 208	13.2	73.3	1097	6	US-10-750-185-39369	Sequence 39369, A
137	13.4	74.4	2920	6	US-10-750-185-49135	Sequence 49135, A	c 209	13.2	73.3	1097	6	US-10-750-623-39369	Sequence 39369, A
138	13.4	74.4	2920	6	US-10-750-623-49135	Sequence 49135, A	c 210	13.2	73.3	1143	6	US-10-750-185-50422	Sequence 50422, A
139	13.4	74.4	3005	6	US-10-750-185-26664	Sequence 26664, A	c 211	13.2	73.3	1143	6	US-10-750-623-50422	Sequence 50422, A
140	13.4	74.4	3005	6	US-10-750-623-26664	Sequence 26664, A	c 212	13.2	73.3	1241	6	US-10-750-185-31777	Sequence 31777, A
141	13.4	74.4	3656	6	US-10-947-249-198	Sequence 198, App	c 213	13.2	73.3	1241	6	US-10-750-623-31777	Sequence 31777, A
142	13.4	74.4	3986	6	US-10-750-185-48137	Sequence 48137, A	c 214	13.2	73.3	1352	6	US-10-750-185-46548	Sequence 46548, A
143	13.4	74.4	3986	6	US-10-750-623-48137	Sequence 48137, A	c 215	13.2	73.3	1352	6	US-10-750-623-46548	Sequence 46548, A
144	13.4	74.4	4686	6	US-10-750-185-37519	Sequence 37519, A	c 216	13.2	73.3	1371	7	US-11-128-061-7078	Sequence 7078, Ap
145	13.4	74.4	4686	6	US-10-750-623-37519	Sequence 37519, A	c 217	13.2	73.3	1371	7	US-10-750-185-30640	Sequence 30640, A
146	13.4	74.4	4742	7	US-11-136-527-3256	Sequence 3256, Ap	c 218	13.2	73.3	1384	6	US-10-750-623-30640	Sequence 30640, A
c 147	13.4	74.4	4895	6	US-10-993-514-1	Sequence 1, Appl	c 219	13.2	73.3	1400	7	US-11-136-527-6609	Sequence 6609, Ap
c 148	13.4	74.4	5841	7	US-11-136-527-676	Sequence 676, App	c 220	13.2	73.3	1442	6	US-10-750-185-25029	Sequence 25029, A
149	13.4	74.4	6436	7	US-11-136-527-2015	Sequence 2015, Ap	c 221	13.2	73.3	1442	6	US-10-750-623-25029	Sequence 25029, A
150	13.4	74.4	14271	6	US-10-995-561-13370	Sequence 13370, A	c 222	13.2	73.3	1469	6	US-10-750-185-24711	Sequence 24711, A
151	13.4	74.4	14603	6	US-10-995-561-13361	Sequence 13361, A	c 223	13.2	73.3	1469	6	US-10-750-623-24711	Sequence 24711, A
152	13.4	74.4	14769	6	US-10-995-561-13507	Sequence 13507, A	c 224	13.2	73.3	1470	6	US-10-750-185-44852	Sequence 44852, A
153	13.4	74.4	23704	7	US-11-124-368A-2905	Sequence 2905, Ap	c 225	13.2	73.3	1470	6	US-10-750-623-44852	Sequence 44852, A
154	13.4	74.4	40000	6	US-10-995-561-13510	Sequence 13510, A	c 226	13.2	73.3	1502	6	US-10-750-185-31524	Sequence 31524, A
c 155	13.4	74.4	68123	6	US-10-995-561-13348	Sequence 13348, A	c 227	13.2	73.3	1502	6	US-10-750-623-31524	Sequence 31524, A
c 156	13.4	74.4	100000	7	US-11-124-368A-2883	Sequence 2883, Ap	c 228	13.2	73.3	1571	6	US-10-750-185-31755	Sequence 31755, A
157	13.4	74.4	120697	7	US-11-121-086-48	Sequence 48, Appl	c 229	13.2	73.3	1582	6	US-10-750-623-31755	Sequence 31755, A
c 158	13.4	74.4	162289	7	US-11-121-086-20	Sequence 20, Appl	c 230	13.2	73.3	1582	6	US-10-750-185-46135	Sequence 46135, A
c 159	13.4	74.4	162289	7	US-11-121-086-20	Sequence 20, Appl	c 231	13.2	73.3	1606	6	US-10-750-623-46135	Sequence 46135, A
160	13.4	74.4	169495	7	US-11-121-086-61	Sequence 61, Appl	c 232	13.2	73.3	1606	6	US-10-750-185-43749	Sequence 43749, A
161	13.4	74.4	171162	7	US-11-112-098-38	Sequence 38, Appl	c 233	13.2	73.3	1640	6	US-10-750-623-43749	Sequence 43749, A
162	13.4	74.4	175416	7	US-11-121-086-43	Sequence 43, Appl	c 234	13.2	73.3	1640	6	US-10-750-185-26909	Sequence 26909, A
163	13.4	74.4	190276	7	US-10-661-966-1	Sequence 1, Appl	c 235	13.2	73.3	1689	6	US-10-750-623-26909	Sequence 26909, A
164	13.4	74.4	191091	7	US-11-121-086-60	Sequence 60, Appl	c 236	13.2	73.3	1701	6	US-10-821-234-223	Sequence 223, App
c 165	13.4	74.4	199130	6	US-10-995-561-13233	Sequence 13233, A	c 237	13.2	73.3	1701	6	US-10-750-185-47524	Sequence 47524, A
c 166	13.4	74.4	220190	6	US-10-995-561-13303	Sequence 13303, A	c 238	13.2	73.3	1701	6	US-10-750-623-47524	Sequence 47524, A
c 167	13.4	74.4	222094	6	US-10-995-561-13244	Sequence 13244, A	c 239	13.2	73.3	1724	7	US-11-136-527-2513	Sequence 2513, Ap
c 168	13.4	74.4	1125000	6	US-10-995-561-13286	Sequence 13286, A	c 240	13.2	73.3	1928	6	US-10-750-185-43392	Sequence 43392, A
c 169	13.2	73.3	19	6	US-10-310-914A-1011876	Sequence 1011876, A	c 241	13.2	73.3	1928	6	US-10-750-623-43392	Sequence 43392, A
							c 242	13.2	73.3	1956	6	US-10-750-185-59481	Sequence 59481, A

C 243	13.2	73.3	1956	6	US-10-750-623-59481	Sequence 59481, A	316	13	72.2	201	6	US-10-995-561-39180	Sequence 39180, A
C 244	13.2	73.3	2072	6	US-10-750-185-45862	Sequence 45862, A	317	13	72.2	201	6	US-10-995-561-39183	Sequence 39183, A
C 245	13.2	73.3	2072	6	US-10-750-623-45862	Sequence 45862, A	318	13	72.2	201	6	US-10-995-561-51375	Sequence 51375, A
C 246	13.2	73.3	2113	6	US-10-750-185-52932	Sequence 52932, A	319	13	72.2	201	6	US-10-995-561-51365	Sequence 51365, A
C 247	13.2	73.3	2113	6	US-10-750-623-52932	Sequence 52932, A	320	13	72.2	201	6	US-10-995-561-55005	Sequence 55005, A
C 248	13.2	73.3	2188	6	US-10-750-185-41974	Sequence 41974, A	321	13	72.2	201	7	US-11-124-368A-12328	Sequence 12328, A
C 249	13.2	73.3	2188	6	US-10-750-623-41974	Sequence 41974, A	322	13	72.2	485	7	US-11-102-240-43	Sequence 43, Appl
C 250	13.2	73.3	2254	6	US-10-750-185-28452	Sequence 28452, A	323	13	72.2	1195	6	US-10-750-185-42736	Sequence 42736, A
C 251	13.2	73.3	2254	6	US-10-750-623-28452	Sequence 28452, A	324	13	72.2	1195	6	US-10-750-623-42736	Sequence 42736, A
C 252	13.2	73.3	2331	7	US-11-136-527-3048	Sequence 3048, Ap	325	13	72.2	1420	6	US-10-510-386-221	Sequence 221, App
C 253	13.2	73.3	2331	7	US-11-037-243-8	Sequence 8, Appl	326	13	72.2	1444	6	US-10-750-185-43380	Sequence 43380, A
C 254	13.2	73.3	2391	7	US-11-136-527-1926	Sequence 1926, Ap	327	13	72.2	1444	6	US-10-750-623-43380	Sequence 43380, A
C 255	13.2	73.3	2652	6	US-10-750-185-45799	Sequence 45799, A	328	13	72.2	1811	6	US-10-750-185-54744	Sequence 54744, A
C 256	13.2	73.3	2652	6	US-10-750-623-45799	Sequence 45799, A	329	13	72.2	1811	6	US-10-750-623-54744	Sequence 54744, A
C 257	13.2	73.3	2750	6	US-10-131-826A-85	Sequence 85, Appl	330	13	72.2	2252	6	US-10-750-185-58156	Sequence 58156, A
C 258	13.2	73.3	2770	6	US-10-750-623-51285	Sequence 51285, A	331	13	72.2	2252	6	US-10-750-623-58156	Sequence 58156, A
C 259	13.2	73.3	2770	6	US-10-750-623-51285	Sequence 51285, A	332	13	72.2	2329	6	US-10-750-185-51607	Sequence 51607, A
C 260	13.2	73.3	2807	6	US-10-750-185-64270	Sequence 64270, A	333	13	72.2	2329	6	US-10-750-623-51607	Sequence 51607, A
C 261	13.2	73.3	2807	6	US-10-750-623-64270	Sequence 64270, A	334	13	72.2	4313	6	US-10-131-826A-393	Sequence 393, App
C 262	13.2	73.3	2876	7	US-11-136-527-3512	Sequence 3512, Ap	335	13	72.2	5731	7	US-11-136-527-2736	Sequence 2736, Ap
C 263	13.2	73.3	2995	6	US-10-750-623-26936	Sequence 26936, A	336	13	72.2	17249	7	US-11-136-527-1941	Sequence 1941, Ap
C 264	13.2	73.3	2995	6	US-10-750-623-26936	Sequence 26936, A	337	13	72.2	25968	6	US-10-995-561-13248	Sequence 13248, A
C 265	13.2	73.3	3018	6	US-10-750-185-60261	Sequence 60261, A	338	13	72.2	28933	6	US-10-995-561-13285	Sequence 13285, A
C 266	13.2	73.3	3018	6	US-10-750-623-60261	Sequence 60261, A	339	13	72.2	35344	6	US-10-995-561-13307	Sequence 13307, A
C 267	13.2	73.3	3249	7	US-11-128-061-3436	Sequence 3436, Ap	340	13	72.2	59110	6	US-10-995-561-13324	Sequence 13324, A
C 268	13.2	73.3	3418	7	US-11-136-527-3778	Sequence 3778, Ap	341	13	72.2	212805	7	US-11-121-086-98	Sequence 98, Appl
C 269	13.2	73.3	3879	6	US-10-750-185-55828	Sequence 55828, A	342	13	72.2	212805	7	US-11-112-908-19	Sequence 19, Appl
C 270	13.2	73.3	3879	6	US-10-750-623-55828	Sequence 55828, A	343	13	72.2	611587	7	US-11-117-187-209	Sequence 209, App
C 271	13.2	73.3	3946	6	US-10-750-185-58542	Sequence 58542, A	344	12.8	71.1	19	6	US-10-310-914A-60077	Sequence 60077, A
C 272	13.2	73.3	3946	6	US-10-750-623-58542	Sequence 58542, A	345	12.8	71.1	19	6	US-10-310-914A-1363434	Sequence 1363434, A
C 273	13.2	73.3	4016	7	US-11-087-100-36	Sequence 3313, Ap	346	12.8	71.1	19	8	US-11-101-244-120271	Sequence 120271, A
C 274	13.2	73.3	4244	7	US-11-087-084-36	Sequence 36, Appl	347	12.8	71.1	19	8	US-11-101-244-150733	Sequence 150733, A
C 275	13.2	73.3	4244	7	US-11-087-085-36	Sequence 36, Appl	348	12.8	71.1	19	8	US-11-101-244-150763	Sequence 150763, A
C 276	13.2	73.3	4244	7	US-11-087-085-36	Sequence 36, Appl	349	12.8	71.1	19	8	US-11-101-244-616181	Sequence 616181, A
C 277	13.2	73.3	4276	7	US-11-136-527-4010	Sequence 4010, Ap	350	12.8	71.1	19	8	US-11-101-244-616275	Sequence 616275, A
C 278	13.2	73.3	4457	7	US-11-136-527-2981	Sequence 2981, Ap	351	12.8	71.1	19	8	US-11-101-244-1480980	Sequence 1480980, A
C 279	13.2	73.3	4697	6	US-10-453-372-1185	Sequence 1185, Ap	352	12.8	71.1	19	8	US-11-101-244-1481019	Sequence 1481019, A
C 280	13.2	73.3	4760	6	US-10-453-372-1179	Sequence 1179, Ap	353	12.8	71.1	19	9	US-11-083-784-120271	Sequence 120271, A
C 281	13.2	73.3	5468	6	US-10-821-234-49	Sequence 49, Appl	354	12.8	71.1	19	9	US-11-083-784-150733	Sequence 150733, A
C 282	13.2	73.3	5698	6	US-10-453-372-1189	Sequence 1189, Ap	355	12.8	71.1	19	9	US-11-083-784-150763	Sequence 150763, A
C 283	13.2	73.3	5956	7	US-11-136-527-2230	Sequence 2230, Ap	356	12.8	71.1	19	9	US-11-083-784-616181	Sequence 616181, A
C 284	13.2	73.3	6224	6	US-10-453-372-1173	Sequence 1173, Ap	357	12.8	71.1	19	9	US-11-083-784-616275	Sequence 616275, A
C 285	13.2	73.3	6494	7	US-10-000-688-609	Sequence 1187, Ap	358	12.8	71.1	19	9	US-11-083-784-1480980	Sequence 1480980, A
C 286	13.2	73.3	6990	7	US-11-121-086-603	Sequence 609, App	359	12.8	71.1	19	9	US-11-083-784-1481019	Sequence 1481019, A
C 287	13.2	73.3	10140	7	US-11-136-527-3169	Sequence 3169, Ap	360	12.8	71.1	20	6	US-10-310-914A-121527	Sequence 121527, A
C 288	13.2	73.3	23046	7	US-11-124-368A-2925	Sequence 2925, Ap	361	12.8	71.1	21	6	US-10-310-914A-206638	Sequence 206638, A
C 289	13.2	73.3	100000	6	US-11-124-368A-2899	Sequence 2899, Ap	362	12.8	71.1	21	6	US-10-310-914A-206639	Sequence 206639, A
C 290	13.2	73.3	101046	6	US-10-995-561-13330	Sequence 13330, A	363	12.8	71.1	21	6	US-10-310-914A-206639	Sequence 206639, A
C 291	13.2	73.3	110608	6	US-10-775-169-193	Sequence 193, App	364	12.8	71.1	21	6	US-10-310-914A-386761	Sequence 386761, A
C 292	13.2	73.3	150481	7	US-11-112-908-37	Sequence 37, Appl	365	12.8	71.1	22	6	US-10-310-914A-166287	Sequence 166287, A
C 293	13.2	73.3	160170	7	US-11-121-086-32	Sequence 32, Appl	366	12.8	71.1	22	6	US-10-310-914A-259639	Sequence 259639, A
C 294	13.2	73.3	162013	7	US-11-150-888-30	Sequence 30, Appl	367	12.8	71.1	22	6	US-10-310-914A-443638	Sequence 443638, A
C 295	13.2	73.3	164527	7	US-11-121-086-71	Sequence 71, Appl	368	12.8	71.1	22	6	US-10-310-914A-1128898	Sequence 1128898, A
C 296	13.2	73.3	169725	7	US-11-121-086-63	Sequence 63, Appl	369	12.8	71.1	23	6	US-10-310-914A-741289	Sequence 741289, A
C 297	13.2	73.3	169725	7	US-11-121-086-63	Sequence 63, Appl	370	12.8	71.1	23	6	US-10-310-914A-1128797	Sequence 1128797, A
C 298	13.2	73.3	173602	7	US-11-121-086-25	Sequence 25, Appl	371	12.8	71.1	25	7	US-11-121-849-69769	Sequence 69769, A
C 299	13.2	73.3	187745	7	US-11-121-086-83	Sequence 83, Appl	372	12.8	71.1	25	7	US-11-121-849-99014	Sequence 99014, A
C 300	13.2	73.3	191091	7	US-11-121-086-60	Sequence 60, Appl	373	12.8	71.1	25	7	US-11-121-849-160511	Sequence 160511, A
C 301	13.2	73.3	387780	6	US-10-995-561-13259	Sequence 13259, A	374	12.8	71.1	25	7	US-11-121-849-162657	Sequence 162657, A
C 302	13	72.2	19	8	US-11-101-244-862266	Sequence 862266, A	375	12.8	71.1	25	7	US-11-121-849-199774	Sequence 199774, A
C 303	13	72.2	19	9	US-11-083-784-862266	Sequence 862266, A	376	12.8	71.1	25	7	US-11-121-849-315640	Sequence 315640, A
C 304	13	72.2	20	6	US-10-310-914A-92819	Sequence 92819, A	377	12.8	71.1	25	7	US-11-136-527-211908	Sequence 211908, A
C 305	13	72.2	20	6	US-10-310-914A-92819	Sequence 1052295, A	378	12.8	71.1	25	7	US-11-136-527-353571	Sequence 353571, A
C 306	13	72.2	21	6	US-10-310-914A-191886	Sequence 191886, A	379	12.8	71.1	26	6	US-10-310-914A-259637	Sequence 259637, A
C 307	13	72.2	22	6	US-10-310-914A-361149	Sequence 361149, A	380	12.8	71.1	201	6	US-10-995-561-25487	Sequence 25487, A
C 308	13	72.2	23	6	US-10-310-914A-361150	Sequence 361150, A	381	12.8	71.1	201	6	US-10-995-561-25488	Sequence 25488, A
C 309	13	72.2	25	7	US-11-121-849-210038	Sequence 210038, A	382	12.8	71.1	201	6	US-10-995-561-25547	Sequence 25547, A
C 310	13	72.2	26	6	US-10-310-914A-92869	Sequence 92869, A	383	12.8	71.1	201	6	US-10-995-561-26168	Sequence 26168, A
C 311	13	72.2	201	6	US-10-995-561-29380	Sequence 29380, A	384	12.8	71.1	201	6	US-10-995-561-26169	Sequence 26169, A
C 312	13	72.2	201	6	US-10-995-561-29432	Sequence 29432, A	385	12.8	71.1	201	6	US-10-995-561-30116	Sequence 30116, A
C 313	13	72.2	201	6	US-10-995-561-29435	Sequence 29435, A	386	12.8	71.1	201	6	US-10-995-561-37190	Sequence 37190, A
C 314	13	72.2	201	6	US-10-995-561-32396	Sequence 32396, A	387	12.8	71.1	201	6	US-10-995-561-38410	Sequence 38410, A
C 315	13	72.2	201	6	US-10-995-561-39126	Sequence 39126, A	388	12.8	71.1	201	6	US-10-995-561-38643	Sequence 38643, A

535	12.8	71.1	2175	6	US-10-750-623-57980	Sequence 57980, A	608	12.8	71.1	93112	6	US-10-995-561-13234	Sequence 13234, A
536	12.8	71.1	2180	6	US-10-750-185-36383	Sequence 36383, A	609	12.8	71.1	96128	6	US-10-995-561-13197	Sequence 13197, A
537	12.8	71.1	2180	6	US-10-750-623-36383	Sequence 36383, A	C 610	12.8	71.1	110847	7	US-11-121-086-11	Sequence 11, Appl
538	12.8	71.1	2238	6	US-10-750-185-33577	Sequence 33577, A	C 611	12.8	71.1	119160	7	US-11-121-086-12	Sequence 12, Appl
539	12.8	71.1	2238	6	US-10-750-623-33577	Sequence 33577, A	C 612	12.8	71.1	147700	6	US-10-857-780-3	Sequence 3, Appl
540	12.8	71.1	2244	7	US-11-136-527-2627	Sequence 2627, Ap	C 613	12.8	71.1	147700	6	US-10-857-780-3	Sequence 3, Appl
C 541	12.8	71.1	2326	7	US-11-136-527-3748	Sequence 3748, Ap	614	12.8	71.1	150314	7	US-11-112-908-24	Sequence 24, Appl
C 542	12.8	71.1	2412	7	US-11-136-527-3493	Sequence 3493, Ap	615	12.8	71.1	150468	7	US-11-112-908-56	Sequence 56, Appl
543	12.8	71.1	2458	6	US-10-750-185-45021	Sequence 45021, A	C 616	12.8	71.1	151169	7	US-11-121-086-38	Sequence 38, Appl
544	12.8	71.1	2458	6	US-10-750-623-45021	Sequence 45021, A	617	12.8	71.1	152335	7	US-11-121-086-73	Sequence 73, Appl
545	12.8	71.1	2471	7	US-11-136-527-2231	Sequence 2231, Ap	C 618	12.8	71.1	154548	7	US-11-121-086-33	Sequence 33, Appl
C 546	12.8	71.1	2486	7	US-11-112-908-5	Sequence 5, Appl	C 619	12.8	71.1	154548	7	US-11-121-086-33	Sequence 33, Appl
C 547	12.8	71.1	2674	6	US-10-750-185-55999	Sequence 55999, A	C 620	12.8	71.1	156260	7	US-11-121-086-86	Sequence 86, Appl
C 548	12.8	71.1	2674	6	US-10-750-623-55999	Sequence 55999, A	C 621	12.8	71.1	159497	7	US-11-112-908-61	Sequence 61, Appl
549	12.8	71.1	2697	7	US-11-128-061-634	Sequence 634, App	C 622	12.8	71.1	160170	7	US-11-121-086-32	Sequence 32, Appl
C 550	12.8	71.1	2960	6	US-10-750-185-44604	Sequence 44604, A	C 623	12.8	71.1	160226	7	US-11-121-086-29	Sequence 29, Appl
C 551	12.8	71.1	2960	6	US-10-750-623-44604	Sequence 44604, A	C 624	12.8	71.1	160226	7	US-11-121-086-29	Sequence 29, Appl
C 552	12.8	71.1	3092	6	US-10-995-561-266	Sequence 266, App	625	12.8	71.1	162537	7	US-11-121-086-59	Sequence 59, Appl
C 553	12.8	71.1	3133	9	US-11-033-764-93	Sequence 93, Appl	C 626	12.8	71.1	164810	7	US-11-121-086-4	Sequence 4, Appl
C 554	12.8	71.1	3189	6	US-10-857-780-12	Sequence 12, Appl	C 627	12.8	71.1	166519	7	US-11-121-086-52	Sequence 52, Appl
555	12.8	71.1	3231	6	US-10-750-185-39676	Sequence 39676, A	628	12.8	71.1	171936	6	US-10-933-025-24	Sequence 24, Appl
556	12.8	71.1	3231	6	US-10-750-623-39676	Sequence 39676, A	C 629	12.8	71.1	172147	7	US-11-112-908-22	Sequence 22, Appl
557	12.8	71.1	3257	7	US-11-136-527-317	Sequence 317, App	C 630	12.8	71.1	179892	7	US-11-112-908-39	Sequence 39, Appl
558	12.8	71.1	3424	6	US-10-750-185-40627	Sequence 40627, A	C 631	12.8	71.1	180574	7	US-11-121-086-70	Sequence 70, Appl
559	12.8	71.1	3424	6	US-10-750-623-40627	Sequence 40627, A	632	12.8	71.1	187786	6	US-10-995-561-13474	Sequence 13474, A
560	12.8	71.1	3625	6	US-10-750-185-33010	Sequence 33010, A	633	12.8	71.1	187986	6	US-10-995-561-13252	Sequence 13252, A
561	12.8	71.1	3625	6	US-10-750-623-33010	Sequence 33010, A	634	12.8	71.1	193789	7	US-11-112-908-55	Sequence 55, Appl
C 562	12.8	71.1	3801	7	US-11-136-527-2337	Sequence 2337, Ap	C 635	12.8	71.1	195235	6	US-10-995-561-13495	Sequence 13495, A
C 563	12.8	71.1	4070	7	US-11-000-688-134	Sequence 134, App	C 636	12.8	71.1	195235	6	US-10-995-561-13495	Sequence 13495, A
564	12.8	71.1	4249	6	US-10-750-185-56506	Sequence 56506, A	637	12.8	71.1	197781	7	US-11-112-908-34	Sequence 34, Appl
565	12.8	71.1	4249	6	US-10-750-623-56506	Sequence 56506, A	638	12.8	71.1	199130	6	US-10-995-561-13233	Sequence 13233, A
566	12.8	71.1	4396	7	US-11-000-688-41	Sequence 41, Appl	639	12.8	71.1	217623	7	US-11-112-908-33	Sequence 33, Appl
567	12.8	71.1	4432	6	US-10-995-561-265	Sequence 265, App	640	12.8	71.1	220895	6	US-10-775-169-88	Sequence 88, Appl
568	12.8	71.1	4509	6	US-10-678-790-45	Sequence 45, Appl	C 641	12.8	71.1	220895	6	US-10-775-169-88	Sequence 88, Appl
C 569	12.8	71.1	4772	6	US-10-857-780-13	Sequence 13, Appl	642	12.8	71.1	246960	7	US-11-121-086-8	Sequence 8, Appl
C 570	12.8	71.1	4854	7	US-11-136-527-3726	Sequence 3726, Ap	643	12.8	71.1	285300	6	US-10-857-780-6	Sequence 6, Appl
571	12.8	71.1	5102	7	US-11-128-061-561	Sequence 561, App	644	12.8	71.1	305312	6	US-10-995-561-13236	Sequence 13236, A
572	12.8	71.1	5306	6	US-10-750-185-34792	Sequence 34792, A	C 645	12.8	71.1	1080000	6	US-10-928-446A-1	Sequence 1, Appl
573	12.8	71.1	5306	6	US-10-750-623-34792	Sequence 34792, A	C 646	12.8	71.1	1080000	6	US-10-928-446A-181	Sequence 181, App
C 574	12.8	71.1	5482	7	US-11-136-527-4048	Sequence 4048, Ap	C 647	12.8	71.1	1080000	6	US-10-928-446A-183	Sequence 183, App
C 575	12.8	71.1	6127	8	US-11-112-944-20	Sequence 20, Appl	C 648	12.8	71.1	1080000	6	US-10-928-446A-185	Sequence 185, App
C 576	12.8	71.1	6914	7	US-11-000-688-1053	Sequence 1053, Ap	C 649	12.8	71.1	1080000	6	US-10-928-446A-187	Sequence 187, App
C 577	12.8	71.1	7326	7	US-11-128-061-575	Sequence 575, App	C 650	12.8	71.1	1080000	6	US-10-928-446A-189	Sequence 189, App
C 578	12.8	71.1	7396	7	US-11-136-527-2724	Sequence 2724, Ap	C 651	12.8	71.1	1080000	6	US-10-928-446A-191	Sequence 191, App
C 579	12.8	71.1	7989	6	US-10-509-921-8	Sequence 2, Appl	C 652	12.8	71.1	1080000	6	US-10-928-446A-193	Sequence 193, App
C 580	12.8	71.1	7989	6	US-10-509-921-8	Sequence 8, Appl	C 653	12.8	71.1	1080000	6	US-10-928-446A-195	Sequence 195, App
C 581	12.8	71.1	7989	6	US-10-509-921-14	Sequence 14, Appl	C 654	12.8	71.1	1080000	6	US-10-928-446A-197	Sequence 197, App
C 582	12.8	71.1	7989	7	US-11-119-330-1	Sequence 1, Appl	C 655	12.8	71.1	1080000	6	US-10-928-446A-199	Sequence 199, App
C 583	12.8	71.1	7992	6	US-10-509-921-3	Sequence 3, Appl	C 656	12.8	71.1	1080000	6	US-10-928-446A-201	Sequence 201, App
C 584	12.8	71.1	7992	7	US-11-111-686-1	Sequence 1, Appl	C 657	12.6	70.0	861	6	US-10-689-742-196	Sequence 196, App
C 585	12.8	71.1	7992	7	US-11-111-686-2	Sequence 2, Appl	C 658	12.4	68.9	18	6	US-10-310-914A-42636	Sequence 42636, A
C 586	12.8	71.1	7992	7	US-11-111-686-4	Sequence 4, Appl	C 659	12.4	68.9	18	6	US-10-310-914A-468788	Sequence 468788, A
C 587	12.8	71.1	7992	7	US-11-111-686-5	Sequence 5, Appl	C 660	12.4	68.9	19	6	US-10-310-914A-887593	Sequence 887593, A
C 588	12.8	71.1	7992	7	US-11-111-686-6	Sequence 6, Appl	C 661	12.4	68.9	19	6	US-10-310-914A-1031709	Sequence 1031709, A
C 589	12.8	71.1	7995	7	US-11-111-686-3	Sequence 3, Appl	C 662	12.4	68.9	19	6	US-10-310-914A-1172669	Sequence 1172669, A
C 590	12.8	71.1	8268	7	US-11-136-527-3386	Sequence 3386, Ap	663	12.4	68.9	19	8	US-11-101-244-57608	Sequence 57608, A
C 591	12.8	71.1	12591	6	US-10-995-561-13415	Sequence 13415, A	664	12.4	68.9	19	8	US-11-101-244-616217	Sequence 616217, A
C 592	12.8	71.1	14023	6	US-10-995-561-13221	Sequence 13221, A	665	12.4	68.9	19	8	US-11-101-244-616310	Sequence 616310, A
C 593	12.8	71.1	14154	6	US-10-995-561-13282	Sequence 13282, A	C 666	12.4	68.9	19	8	US-11-101-244-640657	Sequence 640657, A
594	12.8	71.1	17112	7	US-11-176-253-2	Sequence 2, A	C 667	12.4	68.9	19	8	US-11-101-244-640746	Sequence 640746, A
C 595	12.8	71.1	24064	6	US-10-995-561-13478	Sequence 13478, A	C 668	12.4	68.9	19	8	US-11-101-244-640831	Sequence 640831, A
C 596	12.8	71.1	28190	7	US-10-995-561-13333	Sequence 13333, A	C 669	12.4	68.9	19	8	US-11-101-244-640916	Sequence 640916, A
597	12.8	71.1	31936	7	US-11-124-368A-2891	Sequence 2891, Ap	C 670	12.4	68.9	19	8	US-11-101-244-641004	Sequence 641004, A
C 598	12.8	71.1	32070	6	US-10-995-561-13317	Sequence 13317, A	671	12.4	68.9	19	8	US-11-101-244-676814	Sequence 676814, A
C 599	12.8	71.1	43975	6	US-10-995-561-13279	Sequence 13279, A	672	12.4	68.9	19	8	US-11-101-244-925728	Sequence 925728, A
600	12.8	71.1	46089	6	US-10-995-561-13325	Sequence 13325, A	673	12.4	68.9	19	8	US-11-101-244-925739	Sequence 925739, A
601	12.8	71.1	46215	6	US-10-995-561-13483	Sequence 13483, A	C 674	12.4	68.9	19	8	US-11-101-244-1152316	Sequence 1152316, A
602	12.8	71.1	47460	7	US-11-124-368A-2877	Sequence 2877, Ap	C 675	12.4	68.9	19	8	US-11-101-244-1160981	Sequence 1160981, A
C 603	12.8	71.1	57073	6	US-10-995-561-13275	Sequence 13275, A	C 676	12.4	68.9	19	8	US-11-101-244-1198691	Sequence 1198691, A
C 604	12.8	71.1	77246	6	US-11-124-368A-2907	Sequence 2907, Ap	C 677	12.4	68.9	19	8	US-11-101-244-1480994	Sequence 1480994, A
C 605	12.8	71.1	84409	6	US-10-995-561-13494	Sequence 13494, A	C 678	12.4	68.9	19	8	US-11-101-244-1481005	Sequence 1481005, A
C 606	12.8	71.1	88873	6	US-10-995-561-13383	Sequence 13383, A	C 679	12.4	68.9	19	8	US-11-101-244-1481052	Sequence 1481052, A
607	12.8	71.1	91561	7	US-11-124-368A-2896	Sequence 2896, Ap	C 680	12.4	68.9	19	8	US-11-101-244-1481053	Sequence 1481053, A

c 681	12.4	68.9	19	8	US-11-101-244-1481054	Sequence 1481054,	754	12.4	68.9	201	6	US-10-995-561-16723	Sequence 16723, A
c 682	12.4	68.9	19	9	US-11-083-784-57608	Sequence 57608, A	c 755	12.4	68.9	201	6	US-10-995-561-31151	Sequence 31151, A
c 683	12.4	68.9	19	9	US-11-083-784-616217	Sequence 616217,	c 756	12.4	68.9	201	6	US-10-995-561-32281	Sequence 32281, A
c 684	12.4	68.9	19	9	US-11-083-784-616310	Sequence 616310,	c 757	12.4	68.9	201	6	US-10-995-561-43801	Sequence 43801, A
c 685	12.4	68.9	19	9	US-11-083-784-640657	Sequence 640657,	c 758	12.4	68.9	201	6	US-10-995-561-47082	Sequence 47082, A
c 686	12.4	68.9	19	9	US-11-083-784-640746	Sequence 640746,	c 759	12.4	68.9	201	6	US-10-995-561-48204	Sequence 48204, A
c 687	12.4	68.9	19	9	US-11-083-784-640831	Sequence 640831,	c 760	12.4	68.9	201	6	US-10-995-561-48500	Sequence 48500, A
c 688	12.4	68.9	19	9	US-11-083-784-640916	Sequence 640916,	c 761	12.4	68.9	201	6	US-10-995-561-48501	Sequence 48501, A
c 689	12.4	68.9	19	9	US-11-083-784-641004	Sequence 641004,	c 762	12.4	68.9	201	6	US-10-995-561-48502	Sequence 48502, A
c 690	12.4	68.9	19	9	US-11-083-784-641004	Sequence 641004,	c 763	12.4	68.9	201	6	US-10-995-561-48503	Sequence 48503, A
c 691	12.4	68.9	19	9	US-11-083-784-925728	Sequence 925728,	c 764	12.4	68.9	201	6	US-10-995-561-54791	Sequence 54791, A
c 692	12.4	68.9	19	9	US-11-083-784-925728	Sequence 925728,	c 765	12.4	68.9	201	6	US-10-995-561-57752	Sequence 57752, A
c 693	12.4	68.9	19	9	US-11-083-784-1152316	Sequence 1152316,	c 766	12.4	68.9	201	6	US-10-995-561-58899	Sequence 58899, A
c 694	12.4	68.9	19	9	US-11-083-784-1152316	Sequence 1152316,	c 767	12.4	68.9	201	6	US-10-995-561-58972	Sequence 58972, A
c 695	12.4	68.9	19	9	US-11-083-784-1198691	Sequence 1198691,	c 768	12.4	68.9	201	6	US-10-995-561-72601	Sequence 72601, A
c 696	12.4	68.9	19	9	US-11-083-784-1198691	Sequence 1198691,	c 769	12.4	68.9	201	6	US-10-995-561-74711	Sequence 74711, A
c 697	12.4	68.9	19	9	US-11-083-784-1480994	Sequence 1480994,	c 770	12.4	68.9	201	6	US-10-995-561-75870	Sequence 75870, A
c 698	12.4	68.9	19	9	US-11-083-784-1480994	Sequence 1480994,	c 771	12.4	68.9	201	6	US-10-995-561-75871	Sequence 75871, A
c 699	12.4	68.9	19	9	US-11-083-784-1481005	Sequence 1481005,	c 772	12.4	68.9	201	6	US-10-995-561-75872	Sequence 75872, A
c 700	12.4	68.9	19	9	US-11-083-784-1481052	Sequence 1481052,	c 773	12.4	68.9	201	6	US-10-995-561-75873	Sequence 75873, A
c 701	12.4	68.9	19	9	US-11-083-784-1481053	Sequence 1481053,	c 774	12.4	68.9	201	6	US-10-995-561-75877	Sequence 75877, A
c 702	12.4	68.9	20	6	US-10-310-914A-468818	Sequence 468818,	c 775	12.4	68.9	201	6	US-10-995-561-76025	Sequence 76025, A
c 703	12.4	68.9	20	6	US-10-310-914A-468818	Sequence 468818,	c 776	12.4	68.9	201	6	US-10-995-561-76249	Sequence 76249, A
c 704	12.4	68.9	20	6	US-10-310-914A-597112	Sequence 597112,	c 777	12.4	68.9	201	6	US-10-995-561-81157	Sequence 81157, A
c 705	12.4	68.9	20	6	US-10-310-914A-597112	Sequence 597112,	c 778	12.4	68.9	201	6	US-10-995-561-81492	Sequence 81492, A
c 706	12.4	68.9	21	6	US-10-310-914A-1172646	Sequence 1172646,	c 779	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 707	12.4	68.9	21	6	US-10-310-914A-1172646	Sequence 1172646,	c 780	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 708	12.4	68.9	21	6	US-10-310-914A-315571	Sequence 315571,	c 781	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 709	12.4	68.9	21	6	US-10-310-914A-345144	Sequence 345144,	c 782	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 710	12.4	68.9	22	6	US-10-310-914A-785655	Sequence 785655,	c 783	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 711	12.4	68.9	22	6	US-10-310-914A-1197746	Sequence 1197746,	c 784	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 712	12.4	68.9	23	6	US-10-310-914A-700530	Sequence 700530,	c 785	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 713	12.4	68.9	23	6	US-10-310-914A-345138	Sequence 345138,	c 786	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 714	12.4	68.9	23	6	US-10-310-914A-345145	Sequence 345145,	c 787	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 715	12.4	68.9	23	6	US-10-310-914A-345152	Sequence 345152,	c 788	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 716	12.4	68.9	24	6	US-10-310-914A-298452	Sequence 298452,	c 789	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 717	12.4	68.9	24	6	US-10-310-914A-345152	Sequence 345152,	c 790	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 718	12.4	68.9	24	6	US-10-310-914A-594359	Sequence 594359,	c 791	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 719	12.4	68.9	24	6	US-10-310-914A-650949	Sequence 650949,	c 792	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 720	12.4	68.9	24	6	US-10-310-914A-1067877	Sequence 1067877,	c 793	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 721	12.4	68.9	25	7	US-11-121-849-180814	Sequence 180814,	c 794	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 722	12.4	68.9	25	7	US-11-121-849-229373	Sequence 229373,	c 795	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 723	12.4	68.9	25	7	US-11-121-849-229374	Sequence 229374,	c 796	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 724	12.4	68.9	25	7	US-11-121-849-229374	Sequence 229374,	c 797	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 725	12.4	68.9	25	7	US-11-121-849-249066	Sequence 249066,	c 798	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 726	12.4	68.9	25	7	US-11-121-849-249066	Sequence 249066,	c 799	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 727	12.4	68.9	25	7	US-11-121-849-564975	Sequence 564975,	c 800	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 728	12.4	68.9	25	7	US-11-121-849-564975	Sequence 564975,	c 801	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 729	12.4	68.9	25	7	US-11-121-849-565548	Sequence 565548,	c 802	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 730	12.4	68.9	25	7	US-11-121-849-565548	Sequence 565548,	c 803	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 731	12.4	68.9	25	7	US-11-121-849-565550	Sequence 565550,	c 804	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 732	12.4	68.9	25	7	US-11-121-849-565551	Sequence 565551,	c 805	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 733	12.4	68.9	25	7	US-11-121-849-565552	Sequence 565552,	c 806	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 734	12.4	68.9	25	7	US-11-121-849-565553	Sequence 565553,	c 807	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 735	12.4	68.9	25	7	US-11-121-849-565554	Sequence 565554,	c 808	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 736	12.4	68.9	25	7	US-11-121-849-648964	Sequence 648964,	c 809	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 737	12.4	68.9	25	7	US-11-121-849-648964	Sequence 648964,	c 810	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 738	12.4	68.9	27	6	US-10-310-914A-386730	Sequence 386730,	c 811	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 739	12.4	68.9	27	6	US-10-310-914A-1128758	Sequence 1128758,	c 812	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 740	12.4	68.9	92	7	US-11-128-061-3170	Sequence 3170, Ap	c 813	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 741	12.4	68.9	92	7	US-11-128-061-3170	Sequence 3170, Ap	c 814	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 742	12.4	68.9	135	6	US-10-995-561-8988	Sequence 8988, Ap	c 815	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 743	12.4	68.9	135	6	US-10-995-561-8988	Sequence 8988, Ap	c 816	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 744	12.4	68.9	159	6	US-10-995-561-8986	Sequence 8986, Ap	c 817	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 745	12.4	68.9	159	6	US-10-995-561-8986	Sequence 8986, Ap	c 818	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 746	12.4	68.9	160	6	US-10-995-561-9006	Sequence 9006, Ap	c 819	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 747	12.4	68.9	160	6	US-10-995-561-9005	Sequence 9005, Ap	c 820	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 748	12.4	68.9	165	6	US-10-995-561-9005	Sequence 9005, Ap	c 821	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 749	12.4	68.9	165	6	US-10-995-561-9003	Sequence 9003, Ap	c 822	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 750	12.4	68.9	201	6	US-10-995-561-11286	Sequence 11286, A	c 823	12.4	68.9	201	6	US-10-995-561-11286	Sequence 11286, A
c 751	12.4	68.9	201	6	US-10-995-561-11290	Sequence 11290, A	c 824	12.4	68.9	201	6	US-10-995-561-11290	Sequence 11290, A
c 752	12.4	68.9	201	6	US-10-995-561-11294	Sequence 11294, A	c 825	12.4	68.9	201	6	US-10-995-561-11294	Sequence 11294, A
c 753	12.4	68.9	201	6	US-10-995-561-11298	Sequence 11298, A	c 826	12.4	68.9	201	6	US-10-995-561-11298	Sequence 11298, A

827	12.4	68.9	892	6	US-10-750-185-62811	Sequence 62811, A	900	12.4	68.9	1644	6	US-10-750-185-63957	Sequence 63957, A
828	12.4	68.9	892	6	US-10-750-623-62811	Sequence 62811, A	901	12.4	68.9	1644	6	US-10-750-623-63957	Sequence 63957, A
829	12.4	68.9	905	6	US-10-750-185-60537	Sequence 60537, A	c 902	12.4	68.9	1648	6	US-10-750-185-58002	Sequence 58002, A
830	12.4	68.9	905	6	US-10-750-623-60537	Sequence 60537, A	c 903	12.4	68.9	1648	6	US-10-750-623-58002	Sequence 58002, A
831	12.4	68.9	937	6	US-10-750-185-60776	Sequence 60776, A	c 904	12.4	68.9	1660	7	US-11-136-527-2749	Sequence 2749, Ap
832	12.4	68.9	937	6	US-10-750-623-60776	Sequence 60776, A	c 905	12.4	68.9	1678	6	US-10-750-185-43745	Sequence 43745, Ap
c 833	12.4	68.9	948	6	US-10-750-185-56254	Sequence 56254, A	c 906	12.4	68.9	1678	6	US-10-750-623-43745	Sequence 43745, A
834	12.4	68.9	948	6	US-10-750-623-56254	Sequence 56254, A	c 907	12.4	68.9	1683	7	US-11-148-108-19	Sequence 19, Appl
835	12.4	68.9	998	7	US-11-102-400-125	Sequence 125, App	c 908	12.4	68.9	1721	6	US-10-750-185-38308	Sequence 38308, A
c 836	12.4	68.9	1034	6	US-10-750-185-48767	Sequence 48767, A	c 909	12.4	68.9	1721	6	US-10-750-623-38308	Sequence 38308, A
c 837	12.4	68.9	1034	6	US-10-750-623-48767	Sequence 48767, A	c 910	12.4	68.9	1753	6	US-10-750-185-50420	Sequence 50420, A
c 838	12.4	68.9	1068	6	US-10-750-623-43744	Sequence 43744, A	c 911	12.4	68.9	1753	6	US-10-750-623-50420	Sequence 50420, A
839	12.4	68.9	1102	6	US-10-750-185-36660	Sequence 36660, A	c 912	12.4	68.9	1808	6	US-10-750-185-53123	Sequence 53123, A
c 840	12.4	68.9	1102	6	US-10-750-623-36660	Sequence 36660, A	c 913	12.4	68.9	1808	6	US-10-750-623-53123	Sequence 53123, A
c 841	12.4	68.9	1102	6	US-10-750-623-36660	Sequence 36660, A	c 914	12.4	68.9	1811	7	US-11-136-527-2529	Sequence 2529, Ap
842	12.4	68.9	1118	6	US-10-750-185-64354	Sequence 64354, A	c 915	12.4	68.9	1835	6	US-10-750-185-58591	Sequence 58591, A
843	12.4	68.9	1118	6	US-10-750-623-64354	Sequence 64354, A	c 916	12.4	68.9	1835	6	US-10-750-623-58591	Sequence 58591, A
c 844	12.4	68.9	1122	6	US-10-821-234-411	Sequence 411, App	c 917	12.4	68.9	1845	6	US-10-750-185-24665	Sequence 24665, A
845	12.4	68.9	1131	6	US-10-750-185-50057	Sequence 50057, A	c 918	12.4	68.9	1845	6	US-10-750-623-24665	Sequence 24665, A
846	12.4	68.9	1131	6	US-10-750-623-50057	Sequence 50057, A	c 919	12.4	68.9	1872	6	US-10-750-185-31426	Sequence 31426, A
847	12.4	68.9	1133	6	US-10-750-185-43053	Sequence 43053, A	c 920	12.4	68.9	1872	6	US-10-750-623-31426	Sequence 31426, A
848	12.4	68.9	1133	6	US-10-750-623-43053	Sequence 43053, A	c 921	12.4	68.9	1888	6	US-10-750-185-56009	Sequence 56009, A
c 849	12.4	68.9	1134	6	US-10-750-185-44090	Sequence 44090, A	c 922	12.4	68.9	1888	6	US-10-750-623-56009	Sequence 56009, A
c 850	12.4	68.9	1134	6	US-10-750-623-44090	Sequence 44090, A	c 923	12.4	68.9	1895	6	US-10-750-185-42451	Sequence 42451, A
c 851	12.4	68.9	1143	6	US-10-750-185-28789	Sequence 28789, A	c 924	12.4	68.9	1895	6	US-10-750-623-42451	Sequence 42451, A
c 852	12.4	68.9	1143	6	US-10-750-623-28789	Sequence 28789, A	c 925	12.4	68.9	1914	6	US-10-750-185-28439	Sequence 28439, A
853	12.4	68.9	1205	6	US-10-750-185-49396	Sequence 49396, A	c 926	12.4	68.9	1914	6	US-10-750-623-28439	Sequence 28439, A
854	12.4	68.9	1205	6	US-10-750-623-49396	Sequence 49396, A	c 927	12.4	68.9	1956	6	US-10-750-185-48990	Sequence 48990, A
c 855	12.4	68.9	1209	6	US-10-750-185-50446	Sequence 50446, A	c 928	12.4	68.9	1956	6	US-10-750-623-48990	Sequence 48990, A
c 856	12.4	68.9	1209	6	US-10-750-623-50446	Sequence 50446, A	c 929	12.4	68.9	1991	8	US-11-147-725-1	Sequence 1, Appl
c 857	12.4	68.9	1212	6	US-10-750-185-29015	Sequence 29015, A	c 930	12.4	68.9	1995	6	US-10-750-185-38357	Sequence 38357, A
c 858	12.4	68.9	1212	6	US-10-750-623-29015	Sequence 29015, A	c 931	12.4	68.9	1995	6	US-10-750-623-38357	Sequence 38357, A
c 859	12.4	68.9	1235	6	US-10-750-185-35150	Sequence 35150, A	c 932	12.4	68.9	2007	6	US-10-750-185-48147	Sequence 48147, A
c 860	12.4	68.9	1235	6	US-10-750-623-35150	Sequence 35150, A	c 933	12.4	68.9	2007	6	US-10-750-623-48147	Sequence 48147, A
861	12.4	68.9	1236	6	US-10-750-185-45099	Sequence 45099, A	c 934	12.4	68.9	2024	6	US-10-947-249-141	Sequence 141, App
862	12.4	68.9	1236	6	US-10-750-623-45099	Sequence 45099, A	c 935	12.4	68.9	2059	6	US-10-750-185-41198	Sequence 41198, A
863	12.4	68.9	1240	6	US-10-750-185-27382	Sequence 27382, A	c 936	12.4	68.9	2175	6	US-10-750-623-41198	Sequence 41198, A
864	12.4	68.9	1240	6	US-10-750-623-27382	Sequence 27382, A	c 937	12.4	68.9	2175	6	US-10-821-234-654	Sequence 654, App
865	12.4	68.9	1260	6	US-10-750-185-58484	Sequence 58484, A	c 938	12.4	68.9	2249	7	US-11-136-527-2388	Sequence 2388, Ap
866	12.4	68.9	1260	6	US-10-750-623-58484	Sequence 58484, A	c 939	12.4	68.9	2249	7	US-11-136-527-2124	Sequence 2124, Ap
c 867	12.4	68.9	1263	6	US-10-750-185-37880	Sequence 37880, A	c 940	12.4	68.9	2499	6	US-10-750-185-28315	Sequence 28315, A
c 868	12.4	68.9	1263	6	US-10-750-623-37880	Sequence 37880, A	c 941	12.4	68.9	2499	6	US-10-750-623-28315	Sequence 28315, A
c 869	12.4	68.9	1268	6	US-10-750-185-56002	Sequence 56002, A	c 942	12.4	68.9	2534	7	US-11-219-995-1	Sequence 1, Appl
c 870	12.4	68.9	1268	6	US-10-750-623-56002	Sequence 56002, A	c 943	12.4	68.9	2548	6	US-10-750-185-27292	Sequence 27292, A
c 871	12.4	68.9	1296	6	US-10-750-185-55415	Sequence 55415, A	c 944	12.4	68.9	2548	6	US-10-750-623-27292	Sequence 27292, A
c 872	12.4	68.9	1296	6	US-10-750-185-56233	Sequence 56233, A	c 945	12.4	68.9	2619	6	US-10-750-185-42549	Sequence 42549, A
c 873	12.4	68.9	1296	6	US-10-750-623-55415	Sequence 55415, A	c 946	12.4	68.9	2619	6	US-10-750-623-42549	Sequence 42549, A
c 874	12.4	68.9	1296	6	US-10-750-623-56233	Sequence 56233, A	c 947	12.4	68.9	2745	7	US-10-517-544-76	Sequence 76, Appl
875	12.4	68.9	1353	6	US-10-750-185-25074	Sequence 25074, A	c 948	12.4	68.9	2813	7	US-11-148-108-18	Sequence 18, Appl
c 876	12.4	68.9	1353	6	US-10-750-623-25074	Sequence 25074, A	c 949	12.4	68.9	2859	6	US-10-995-561-314	Sequence 314, App
c 877	12.4	68.9	1359	6	US-10-821-234-67	Sequence 67, Appl	c 950	12.4	68.9	2880	6	US-10-750-185-55877	Sequence 55877, A
c 878	12.4	68.9	1382	6	US-10-750-185-42747	Sequence 42747, A	c 951	12.4	68.9	2880	6	US-10-750-623-55877	Sequence 55877, A
c 879	12.4	68.9	1382	6	US-10-750-623-42747	Sequence 42747, A	c 952	12.4	68.9	2941	6	US-10-995-561-315	Sequence 315, App
c 880	12.4	68.9	1398	6	US-10-750-185-57600	Sequence 57600, A	c 953	12.4	68.9	2941	6	US-11-000-688-6	Sequence 6, Appl
c 881	12.4	68.9	1398	6	US-10-750-623-57600	Sequence 57600, A	c 954	12.4	68.9	2983	7	US-11-148-108-20	Sequence 20, Appl
c 882	12.4	68.9	1400	7	US-11-136-527-6435	Sequence 6435, Ap	c 955	12.4	68.9	2992	7	US-11-136-527-4047	Sequence 4047, Ap
c 883	12.4	68.9	1411	6	US-10-750-185-25622	Sequence 25622, A	c 956	12.4	68.9	3051	6	US-10-750-185-62899	Sequence 62899, A
c 884	12.4	68.9	1411	6	US-10-750-623-25622	Sequence 25622, A	c 957	12.4	68.9	3051	6	US-10-750-623-62899	Sequence 62899, A
c 885	12.4	68.9	1481	6	US-10-995-561-434	Sequence 434, App	c 958	12.4	68.9	3079	6	US-10-623-155-116	Sequence 116, App
c 886	12.4	68.9	1485	6	US-10-750-185-27091	Sequence 27091, A	c 959	12.4	68.9	3163	6	US-10-750-185-32501	Sequence 32501, A
c 887	12.4	68.9	1485	6	US-10-750-623-27091	Sequence 27091, A	c 960	12.4	68.9	3163	6	US-10-750-623-32501	Sequence 32501, A
c 888	12.4	68.9	1488	7	US-11-219-995-3	Sequence 3, Appl	c 961	12.4	68.9	3274	7	US-11-136-527-2339	Sequence 2339, Ap
c 889	12.4	68.9	1512	6	US-10-750-185-60447	Sequence 60447, A	c 962	12.4	68.9	3311	7	US-11-108-172-1056	Sequence 1056, Ap
c 890	12.4	68.9	1512	6	US-10-750-623-60447	Sequence 60447, A	c 963	12.4	68.9	3311	7	US-11-136-527-2007	Sequence 2007, Ap
c 891	12.4	68.9	1531	6	US-10-750-185-57262	Sequence 57262, A	c 964	12.4	68.9	3372	7	US-11-037-243-18	Sequence 18, Appl
c 892	12.4	68.9	1531	6	US-10-750-623-57262	Sequence 57262, A	c 965	12.4	68.9	3527	6	US-10-750-185-49100	Sequence 49100, A
c 893	12.4	68.9	1534	6	US-10-750-185-38375	Sequence 38375, A	c 966	12.4	68.9	3527	6	US-10-750-623-38375	Sequence 38375, A
c 894	12.4	68.9	1534	6	US-10-750-623-38375	Sequence 38375, A	c 967	12.4	68.9	3618	7	US-11-136-527-294	Sequence 294, App
c 895	12.4	68.9	1575	6	US-10-995-561-433	Sequence 433, App	c 968	12.4	68.9	3762	6	US-10-750-185-48607	Sequence 48607, A
c 896	12.4	68.9	1634	6	US-10-750-185-45670	Sequence 45670, A	c 969	12.4	68.9	3762	6	US-10-750-623-45670	Sequence 45670, A
c 897	12.4	68.9	1634	6	US-10-750-623-45670	Sequence 45670, A	c 970	12.4	68.9	3785	7	US-11-136-527-3287	Sequence 3287, Ap
c 898	12.4	68.9	1636	6	US-10-750-185-26884	Sequence 26884, A	c 971	12.4	68.9	3827	7	US-11-136-527-3202	Sequence 3202, Ap
c 899	12.4	68.9	1636	6	US-10-750-623-26884	Sequence 26884, A	c 972	12.4	68.9	3884	6	US-10-601-368-17	Sequence 17, Appl

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973 12.4 68.9 3895 7 US-11-136-527-1852 Sequence 1852, Ap
974 12.4 68.9 4035 7 US-11-136-527-3632 Sequence 3632, Ap
975 12.4 68.9 4119 6 US-10-947-249-48 Sequence 48, Appl
c 976 12.4 68.9 4928 6 US-10-750-185-31365 Sequence 31365, A
977 12.4 68.9 4928 6 US-10-750-623-31365 Sequence 31365, A
978 12.4 68.9 5037 7 US-11-186-284-152 Sequence 152, App
c 979 12.4 68.9 5048 6 US-10-750-185-40762 Sequence 40762, A
980 12.4 68.9 5048 6 US-10-750-623-40762 Sequence 40762, A
981 12.4 68.9 5515 6 US-10-517-605-14 Sequence 14, Appl
982 12.4 68.9 5515 6 US-11-055-309A-2 Sequence 2, Appli
c 983 12.4 68.9 5571 7 US-11-128-061-708 Sequence 708, App
984 12.4 68.9 5673 7 US-11-128-061-436 Sequence 436, App
985 12.4 68.9 5784 7 US-11-136-527-2025 Sequence 2025, Ap
986 12.4 68.9 5982 7 US-11-034-771-1 Sequence 1, Appli
987 12.4 68.9 6878 7 US-11-136-527-1919 Sequence 1919, Ap
988 12.4 68.9 12724 7 US-11-124-368A-2932 Sequence 2932, Ap
989 12.4 68.9 14154 6 US-10-995-561-13282 Sequence 13282, A
990 12.4 68.9 15804 6 US-10-995-561-13294 Sequence 13294, A
991 12.4 68.9 16963 6 US-10-995-561-13467 Sequence 13467, A
992 12.4 68.9 17004 7 US-11-176-253-1 Sequence 1, Appli
993 12.4 68.9 20317 6 US-10-995-561-13460 Sequence 13460, A
c 994 12.4 68.9 21442 6 US-10-995-561-13469 Sequence 13469, A
995 12.4 68.9 23672 6 US-10-995-561-13267 Sequence 13267, A
996 12.4 68.9 24446 6 US-10-995-561-13436 Sequence 13436, A
997 12.4 68.9 28693 6 US-10-995-561-13341 Sequence 13341, A
998 12.4 68.9 29959 6 US-10-995-561-13475 Sequence 13475, A
999 12.4 68.9 33737 6 US-10-276-233A-7 Sequence 7, Appli
c1000 12.4 68.9 35770 6 US-10-995-561-13296 Sequence 13296, A
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ALIGNMENTS

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RESULT 1
US-10-750-185-48505
; Sequence 48505, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750.185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 48505
; TYPE: DNA
; LENGTH: 2883
; ORGANISM: Bovine 19866880623230
US-10-750-185-48505

Query Match 85.6%; Score 15.4; DB 6; Length 2883;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTGCTGCG 17
Db 494 GGGTCTGTATGGCTGCG 510

RESULT 2
US-10-750-623-48505
; Sequence 48505, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
```

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; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10750.623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 48505
; LENGTH: 2883
; TYPE: DNA
; ORGANISM: Bovine 19866880623230
US-10-750-623-48505

Query Match 85.6%; Score 15.4; DB 6; Length 2883;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTGCTGCG 17
Db 494 GGGTCTGTATGGCTGCG 510

RESULT 3
US-10-750-185-34411
; Sequence 34411, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750.185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 34411
; LENGTH: 1619
; TYPE: DNA
; ORGANISM: Bovine 19866880739118
US-10-750-185-34411

Query Match 83.3%; Score 15; DB 6; Length 1619;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGTGCTGCTGC 16
Db 801 GGTCTGTGCTGCTGC 815

RESULT 4
US-10-750-623-34411
; Sequence 34411, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
```

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; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34411
; TYPE: DNA
; LENGTH: 1619
; ORGANISM: Bovine 19866880739118
US-10-750-623-34411

Query Match      83.3%; Score 15; DB 6; Length 1619;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GGTCTGCTGGCTGC 16
Db      801 GGTCTGCTGGCTGC 815

RESULT 5
US-10-750-185-61405/c
; Sequence 61405, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61405
; TYPE: DNA
; LENGTH: 3137
; ORGANISM: Bovine 19866881240321
US-10-750-185-61405

Query Match      83.3%; Score 15; DB 6; Length 3137;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GGTCTGCTGGCTGC 16
Db      1847 GGTCTGCTGGCTGC 1833

RESULT 6
US-10-750-623-61405/c
; Sequence 61405, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
```

```
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61405
; TYPE: DNA
; LENGTH: 3137
; ORGANISM: Bovine 19866881240321
US-10-750-623-61405

Query Match      83.3%; Score 15; DB 6; Length 3137;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GGTCTGCTGGCTGC 16
Db      1847 GGTCTGCTGGCTGC 1833

RESULT 7
US-10-310-914A-1178608/c
; Sequence 1178608, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178608
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178608

Query Match      82.2%; Score 14.8; DB 6; Length 20;
Best Local Similarity 88.9%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGTCTGCTGGCTGC 18
Db      18 GGGCCCTTCTGGCTGC 1

RESULT 8
US-10-310-914A-1178611/c
; Sequence 1178611, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178611
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178611
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Query Match      82.2%; Score 14.8; DB 6; Length 21;
Best Local Similarity 88.9%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
    ||| ||| ||| ||| ||| ||| |||
Db 21 GGGCCTTTCTGGCTGCGC 4

RESULT 9
US-10-310-914A-961492
; Sequence 961492, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 961492
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-961492

Query Match      82.2%; Score 14.8; DB 6; Length 23;
Best Local Similarity 61.1%; Pred. No. 3.9e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
    ||| ||| ||| ||| ||| |||
Db 4 GGGGUGUGUGGCGCCUC 21

RESULT 10
US-10-310-914A-1178585/c
; Sequence 1178585, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178585
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178585

Query Match      82.2%; Score 14.8; DB 6; Length 23;
Best Local Similarity 88.9%; Pred. No. 3.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
    ||| ||| ||| ||| ||| |||
Db 20 GGGCCTTTCTGGCTGCGC 3

RESULT 11
US-10-310-914A-1178603/c
; Sequence 1178603, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178603
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178603

Query Match      82.2%; Score 14.8; DB 6; Length 24;
Best Local Similarity 88.9%; Pred. No. 3.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
    ||| ||| ||| ||| ||| |||
Db 24 GGGCCTTTCTGGCTGCGC 7

RESULT 12
US-10-750-185-1996
; Sequence 1996, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1996
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Bovine MMBT18519
US-10-750-185-1996

Query Match      82.2%; Score 14.8; DB 6; Length 600;
Best Local Similarity 88.9%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
    ||| ||| ||| ||| ||| |||
Db 240 GTGTCTGTCTGTCTGCGC 257

RESULT 13
US-10-750-623-1996
; Sequence 1996, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
```

; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1996
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Bovine MMBT18519
US-10-750-623-1996

Query Match 82.2%; Score 14.8; DB 6; Length 600;
Best Local Similarity 88.9%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGGCG 18
DB 240 GTGTCTGTCTGGCTGGCG 257

RESULT 14

US-10-453-372-815
; Sequence 815, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curasequid version 0.1
; SEQ ID NO 815

LENGTH: 780

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(780)

US-10-453-372-815

Query Match 82.2%; Score 14.8; DB 6; Length 780;
Best Local Similarity 88.9%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGGCG 18
DB 716 GGGCTGTCTGGCTGTGC 733

RESULT 15

US-10-453-372-813

; Sequence 813, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curasequid version 0.1
; SEQ ID NO 813

LENGTH: 840

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (2)..(835)

US-10-453-372-813

Query Match 82.2%; Score 14.8; DB 6; Length 840;
Best Local Similarity 88.9%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGGCG 18
DB 777 GGGCTGTCTGGCTGTGC 794

RESULT 16

US-10-750-185-43064
; Sequence 43064, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis

TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS

FILE REFERENCE: MW1100-2

CURRENT APPLICATION NUMBER: US/10/750,185

CURRENT FILING DATE: 2003-12-31

PRIOR APPLICATION NUMBER: US 60/437,482

PRIOR FILING DATE: 2002-12-31

NUMBER OF SEQ ID NOS: 64922

SOFTWARE: PatentIn version 3.1

SEQ ID NO 43064

LENGTH: 1567

TYPE: DNA

ORGANISM: Bovine 19866880732550

US-10-750-185-43064

Query Match 82.2%; Score 14.8; DB 6; Length 1567;
Best Local Similarity 88.9%; Pred. NO. 2.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18
Db 1091 GGGTGTGTCTGGCTGGC 1108

RESULT 17

```

US-10-750-623-43064
; Sequence 43064, Application US/10750623
; Publication NO. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE NUMBER: MM1100-1
; CURRENT APPLICATION NUMBER: US/10750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43064
; LENGTH: 1567

```

Query Match 82.2%; Score 14.8; DB 6; Length 1567;
Best Local Similarity 88.9%; Pred. No. 2.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18
Db 1091 GGGTGTGTCTGGCTGGC 1108

RESULT 18

```

US-11-136-527-2881/C
; Sequence 2881, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2881
; LENGTH: 1977
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2881

```

Query Match	82.2%;	Score 14.8;	DB 7;	Length 1977;
Best Local Similarity	88.9%;	Pred. No. 2.8e+02;		
Matches 16:	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCC 18

D_b 92 GGGTCTGGCTGCCCTGCGC 75

RESULT 19

```

US-10-955-054A-180/c
; Sequence 180, Application US/10955054A
; Publication No. US20050266420A1
;
; GENERAL INFORMATION:
; APPLICANT: PUSZTAI, LAJOS
; APPLICANT: SYMMANS, W. FRASER
; APPLICANT: HESS, KENNETH R.
; APPLICANT: AYERS, MARK
; APPLICANT: STEC, JAMES
;
; TITLE OF INVENTION: MULTIGENE PREDICTORS OF RESPONSE TO CHEMOTHERAPY
;
; FILE REFERENCE: UTXC:880US
; CURRENT APPLICATION NUMBER: US/10/955,054A
; CURRENT FILING DATE: 2004-09-30
;
; NUMBER OF SEQ ID NOS: 195
; SOFTWARE: PatentIn ver. 2.1
;
; SEQ ID NO 180
; LENGTH: 2919
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-955-054A-180

```

Query Match	82.2%	Score 14.8;	DB 6;	Length 2919;
Best Local Similarity	88.9%	Pred. No. 2.7e+02;		
Matches 16;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18
Db 2550 GGGTCTGTCTGGCTCCTC 2533

RESULT 20

```

US-11-136-527-3735
; Sequence 3735, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3735
; LENGTH: 18171
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3735

```

Query Match	Score 14.8;	DB 7;	Length 18171;
Best Local Similarity	82.2%;		
Matches 16:	88.9%;		
Conservative	0;		
Mismatches	2;		
Indels	0;		
Gaps	0;		

Qy 1 GGGTCTGTCTGGCTGCC 18
db 2762 GGGCCCTGTCTGGCTGCC 2779

RESIT.T 21

```

US111131-086-5
; Sequence 5: Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138-6000-00000

```

```
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 153376
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-5

Query Match      82.28; Score 14.8; DB 7; Length 153376;
Best Local Similarity 88.99; Pred. No. 2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTCTCTGGCTGCGC 18
Db 89067 GGGTCTGCTGGCTCCGC 89084

RESULT 22
US-10-995-561-28757/c
; Sequence 28757, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28757
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-28757

Query Match      80.08; Score 14.4; DB 6; Length 201;
Best Local Similarity 93.88; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTCTCTGGCTGCGC 16
Db 128 GGGTCTTCTTCTGGCTGC 113

RESULT 23
US-10-995-561-71684
; Sequence 71684, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71684
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-71684

Query Match      80.08; Score 14.4; DB 6; Length 201;
Best Local Similarity 93.88; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTCTCTGGCTGCGC 16
Db 128 GGGTCTTCTTCTGGCTGC 113

RESULT 24
US-11-128-061-7099
; Sequence 7099, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounits, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7099
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Cricetus griseus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (199)-(214)
; OTHER INFORMATION: n is a, c, g, or t
US-11-128-061-7099

Query Match      80.0%; Score 14.4; DB 7; Length 600;
Best Local Similarity 93.8%; Pred. No. 4.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGTCTCTCTGGCTGCGC 17
Db 115 GGTCTCTCTGGCAGCG 130

RESULT 25
US-10-750-185-61704/c
; Sequence 61704, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61704
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Bovine 19866880456984
US-10-750-185-61704
```

Query Match 80.0%; Score 14.4; DB 6; Length 1344;
Best Local Similarity 93.8%; Pred. No. 4.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
| | | | | | | | | | | | | | | | | |
Db 953 GGGTCTGTCTGGCTCC 938

RESULT 26

US-10-750-623-61704/c
; Sequence 61704, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61704
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Bovine 19866880456984
US-10-750-623-61704

Query Match 80.0%; Score 14.4; DB 6; Length 1344;
Best Local Similarity 93.8%; Pred. No. 4.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
| | | | | | | | | | | | | | | | | |
Db 953 GGGTCTGTCTGGCTCC 938

RESULT 27

US-11-128-061-3457
; Sequence 3457, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3457
; LENGTH: 1373
; TYPE: DNA
; ORGANISM: Cricetulus griseus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (972)..(987)

; OTHER INFORMATION: n is a, c, g, or t
US-11-128-061-3457

Query Match 80.0%; Score 14.4; DB 7; Length 1373;
Best Local Similarity 93.8%; Pred. No. 4.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGCG 17
| | | | | | | | | | | | | | | | | |
Db 888 GGTCTGTCTGGCAGCG 903

RESULT 28

US-10-750-185-48999
; Sequence 48999, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 48999
; LENGTH: 2173
; TYPE: DNA
; ORGANISM: Bovine 19866881085934
US-10-750-185-48999

Query Match 80.0%; Score 14.4; DB 6; Length 2173;
Best Local Similarity 93.8%; Pred. No. 4.3e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
| | | | | | | | | | | | | | | | | |
Db 260 GGGTCTGACTGGCTGC 275

RESULT 29

US-10-750-623-48999
; Sequence 48999, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 48999
; LENGTH: 2173
; TYPE: DNA
; ORGANISM: Bovine 19866881085934
US-10-750-623-48999

Query Match 80.0%; Score 14.4; DB 7; Length 171486;
Best Local Similarity 93.8%; Pred. No. 3e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 151418 GGGTCTGCTGGCTGC 151403

RESULT 35

US-11-121-086-106/c
; Sequence 106, Application US/11121086
; Publication No. US2005026459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 106
; LENGTH: 179777
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-106

Query Match 80.0%; Score 14.4; DB 7; Length 179777;
Best Local Similarity 93.8%; Pred. No. 2.9e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 45129 GGGTCTGCTGGCTGC 45114

RESULT 36

US-10-775-169-52
; Sequence 52, Application US/10775169
; Publication No. US20050287532A9
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Burczynski, Michael
; APPLICANT: Twine, Natalie
; APPLICANT: Dörner, Andrew
; APPLICANT: Tripicchio, William
; TITLE OF INVENTION: Method for Monitoring Drug Activities In Vivo
; FILE REFERENCE: AM101080 (031896-013000)
; CURRENT APPLICATION NUMBER: US/10/775,169
; CURRENT FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 5278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 52
; LENGTH: 198161
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-775-169-52

Query Match 80.0%; Score 14.4; DB 6; Length 198161;
Best Local Similarity 93.8%; Pred. No. 2.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 212 GGGTCTGCTGGCTGC 227

RESULT 37

US-10-933-025-22

; Sequence 22, Application US/10933025
; Publication No. US20050265987A1
; GENERAL INFORMATION:
; APPLICANT: ROSEN, STEVEN
; APPLICANT: HEMMERICH, STEFAN
; APPLICANT: TOMITA, MEGUMI
; TITLE OF INVENTION: Sulfotransferases and methods of use
; FILE REFERENCE: UCAL-230CON
; CURRENT APPLICATION NUMBER: US/10/933,025
; CURRENT FILING DATE: 2004-09-01
; PRIOR APPLICATION NUMBER: 10/025,966
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/258,577
; PRIOR FILING DATE: 2000-12-27
; PRIOR APPLICATION NUMBER: 60/267,831
; PRIOR FILING DATE: 2001-09-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 268685
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(268685)
; OTHER INFORMATION: n = A, T, C or G
US-10-933-025-22

Query Match 80.0%; Score 14.4; DB 6; Length 268685;
Best Local Similarity 93.8%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16
|||||
Db 88869 GGATCTGCTGGCTGC 88884

RESULT 38

US-11-101-244-552646/c
; Sequence 552646, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 552646
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-552646

Query Match 77.8%; Score 14; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCT 14
|||||
Db 15 GGGTCTGCTGGCT 2

```
RESULT 39
US-11-083-784-552646/c
; Sequence 552646, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: US/10/714,333
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 552646
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-552646

Query Match      77.8%; Score 14; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCT 14
Db 15 GGGTCTGCTGGCT 2

RESULT 40
US-11-121-849-289285
; Sequence 289285, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 289285
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-289285

Query Match      77.8%; Score 14; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCT 14
Db 4 GGGTCTGCTGGCT 17

RESULT 41
US-10-995-561-12647/c
; Sequence 12647, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12647
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-12647

Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 87.3%; Pred. No. 7.8e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
Db 108 GGGTCGGKCTGGCTGC 93

RESULT 42
US-10-995-561-37164/c
; Sequence 37164, Application US/109955561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37164
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-37164

Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GGTCTGCTGGCTG 15
Db 173 GGTCTGCTGGCTG 160

RESULT 43
US-10-995-561-63880/c
; Sequence 63880, Application US/109955561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 63880
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-63880
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Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 1; Mismatches 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
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Db 108 GGGTCGGKCTGGCTGC 93

RESULT 44
US-10-995-561-64241
; Sequence 64241, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64241
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-64241

Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 1; Mismatches 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
    |||||:|||||
Db 94 GGGTCGGKCTGGCTGC 109

RESULT 45
US-10-750-185-32137
; Sequence 32137, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-185-32137

Query Match      77.8%; Score 14; DB 6; Length 1460;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCT 14
    |||||:|||||
Db 213 GGGTCTGTCTGGCT 226

RESULT 46
US-10-750-623-321137
; Sequence 32137, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-623-321137

Query Match      77.8%; Score 14; DB 6; Length 1460;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCT 14
    |||||:|||||
Db 213 GGGTCTGTCTGGCT 226

RESULT 47
US-11-037-243-47/c
; Sequence 47, Application US/11037243
; Publication No. US20050287546A1
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: WHYTE, DAVID
; APPLICANT: CAENEPEEL, SEAN
; APPLICANT: CHARVDCZAK, GLEN
; APPLICANT: MANNING, GERARD
; APPLICANT: SUDARSANAM, SUCHA
; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214
; CURRENT APPLICATION NUMBER: US/11/037,243
; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: US/09/888,615
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 47
; LENGTH: 1671
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-037-243-47

Query Match      77.8%; Score 14; DB 7; Length 1671;
Best Local Similarity 100.0%; Pred. No. 6.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCT 14
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Db 362 GGGTCTGTCTGGCT 349

RESULT 48
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US-10-995-561-497/c
; Sequence 497, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 497
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-497

Query Match      77.8%; Score 14; DB 6; Length 1907;
Best Local Similarity 87.5%; Pred. No. 6.6e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGC 16
        ||||| :|||||
DB      933 GGGTCGGKCTGGCTGC 918

RESULT 49
US-10-995-561-13367/c
; Sequence 13367, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13367
; LENGTH: 18394
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13367

Query Match      77.8%; Score 14; DB 6; Length 18394;
Best Local Similarity 87.5%; Pred. No. 5.5e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGC 16
        ||||| :|||||
DB      10856 GGGTCGGKCTGGCTGC 10841

RESULT 50
US-10-995-561-13275/c
; Sequence 13275, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13275
; LENGTH: 57073
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13275

Query Match      77.8%; Score 14; DB 6; Length 57073;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTG 15
        ||||| :|||||
DB      17388 GGTCTGCTGGCTG 17375

Search completed: January 11, 2006, 05:10:31
Job time : 395.636 secs
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 53.7374 Seconds
(without alignments)
628.495 Million cell updates/sec

Title: US-09-869-169C-12

Perfect score: 19

Sequence: 1 999gtctgtctgctgagc 19

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents NA:*

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8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	17.4	91.6	1254	3	US-10-085-612A-4
2	17.4	91.6	35803	3	US-09-949-016-11863
3	17.4	91.6	35804	3	US-09-949-016-12962
4	17.4	91.6	103934	3	US-09-949-016-14433
5	16	84.2	601	3	US-09-949-016-187895
6	16	84.2	43267	3	US-09-949-016-17117
7	15.8	83.2	285	3	US-09-513-999C-3273
8	15.8	83.2	601	3	US-09-949-002-8841
9	15.8	83.2	601	3	US-09-949-002-8842
10	15.8	83.2	687	3	US-09-799-451-408
11	15.8	83.2	1086	3	US-09-664-249B-2
12	15.8	83.2	1066	3	US-09-762-027-2
13	15.8	83.2	1510	3	US-09-620-312D-142
14	15.8	83.2	8438	2	US-07-945-283-1
15	15.8	83.2	209631	3	US-09-949-002-574
16	15.8	83.2	209632	3	US-09-949-002-802
17	15.8	83.2	4403765	3	US-09-103-840A-2
18	15.8	83.2	4411529	3	US-09-103-840A-1
19	15.4	81.1	601	3	US-09-949-016-204195
20	15.4	81.1	601	3	US-09-949-016-204196
21	15.4	81.1	28374	3	US-09-949-016-17508
22	15.4	81.1	54986	3	US-09-949-016-16716
23	15.4	81.1	75674	3	US-09-949-016-17597
24	15.4	81.1	234884	3	US-09-949-016-16420

Sequence 56117, A
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Sequence 56119, A
Sequence 196036,
Sequence 196037,
Sequence 1343, Ap
Sequence 18, Appl
Sequence 255, App
Sequence 530, App
Sequence 827, App
Sequence 16898, A
Sequence 17298, A
Sequence 1375, A
Sequence 12748, A
Sequence 1652, Ap
Sequence 9198, Ap
Sequence 9596, A
Sequence 166848,
Sequence 193109,
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Sequence 193295,
Sequence 193388,
Sequence 1071, Ap
Sequence 1072, Ap
Sequence 2054, Ap
Sequence 2055, Ap
Sequence 9010, Ap
Sequence 9011, Ap
Sequence 10645, A
Sequence 2050, Ap
Sequence 2358, Ap
Sequence 3, Appl
Sequence 5, Appl
Sequence 7, Appl
Sequence 403, App
Sequence 4, Appl
Sequence 927, App
Sequence 14, Appl
Sequence 3, Appl
Sequence 158, App
Sequence 37, Appl
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Sequence 1, Appl
Sequence 1, Appl
Sequence 6, Appl
Sequence 231, App
Sequence 29, Appl
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Sequence 13709, A
Sequence 14992, A
Sequence 12300, A
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Sequence 3, Appl
Sequence 622, App
Sequence 13547, A
Sequence 13548, A
Sequence 15512, A
Sequence 14469, A
Sequence 15097, A
Sequence 12638, A
Sequence 16057, A
Sequence 15369, A
Sequence 578, App
Sequence 803, App
Sequence 1, Appl
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Sequence 16937, A
Sequence 17240, A
Sequence 17241, A

C 98	14.8	77.9	86213	3	US-09-949-016-17242	Sequence 17242, A	C 171	14.2	74.7	684	3	US-09-270-767-14554	Sequence 14554, A
C 99	14.8	77.9	86213	3	US-09-949-016-17243	Sequence 17243, A	C 172	14.2	74.7	912	3	US-09-252-991A-10351	Sequence 10351, A
C 100	14.8	77.9	90923	3	US-09-949-002-6223	Sequence 6223, App	C 173	14.2	74.7	1005	3	US-09-252-991A-10798	Sequence 10798, A
C 101	14.8	77.9	90925	3	US-09-949-002-789	Sequence 789, App	C 174	14.2	74.7	1037	3	US-09-902-540-5876	Sequence 5876, App
C 102	14.8	77.9	114183	3	US-09-949-002-849	Sequence 849, App	C 175	14.2	74.7	1039	3	US-09-902-540-155	Sequence 155, App
C 103	14.8	77.9	114793	3	US-10-148-806-3	Sequence 3, Appli	C 176	14.2	74.7	1055	3	US-09-215-131-3	Sequence 3, Appli
C 104	14.8	77.9	127546	3	US-09-949-002-624	Sequence 624, App	C 177	14.2	74.7	1055	3	US-09-222-734-3	Sequence 3, Appli
C 105	14.8	77.9	258775	3	US-09-949-016-16435	Sequence 16435, A	C 178	14.2	74.7	1218	3	US-09-902-540-9113	Sequence 9113, App
C 106	14.8	77.9	387902	3	US-09-949-016-14543	Sequence 14543, A	C 179	14.2	74.7	1242	3	US-09-489-039A-5704	Sequence 5704, App
C 107	14.8	77.9	421883	3	US-09-949-016-12557	Sequence 12557, A	C 180	14.2	74.7	1422	3	US-09-252-991A-10234	Sequence 10234, A
C 108	14.8	77.9	450395	3	US-09-949-016-15473	Sequence 15473, A	C 181	14.2	74.7	1422	3	US-09-434-708-3	Sequence 3, Appli
C 109	14.4	75.8	601	3	US-09-949-016-62663	Sequence 62663, A	C 182	14.2	74.7	1829	3	US-09-434-708-1	Sequence 1, Appli
C 110	14.4	75.8	601	3	US-09-949-016-62699	Sequence 62699, A	C 183	14.2	74.7	1829	3	US-10-104-047-851	Sequence 851, App
C 111	14.4	75.8	601	3	US-09-949-016-62699	Sequence 62699, A	C 184	14.2	74.7	1930	3	US-10-104-047-809	Sequence 809, App
C 112	14.4	75.8	601	3	US-09-949-016-84392	Sequence 84392, A	C 185	14.2	74.7	2064	3	US-10-104-047-196	Sequence 196, App
C 113	14.4	75.8	601	3	US-09-949-016-84392	Sequence 84392, A	C 186	14.2	74.7	2316	3	US-09-949-016-4361	Sequence 4361, App
C 114	14.4	75.8	601	3	US-09-949-016-138651	Sequence 138651, A	C 187	14.2	74.7	2326	3	US-09-949-016-521	Sequence 521, App
C 115	14.4	75.8	601	3	US-09-949-016-153695	Sequence 153695, A	C 188	14.2	74.7	2444	3	US-08-906-791-1	Sequence 1, Appli
C 116	14.4	75.8	601	3	US-09-949-016-201510	Sequence 201510, A	C 189	14.2	74.7	2469	3	US-09-111-730-5	Sequence 5, Appli
C 117	14.4	75.8	601	3	US-09-949-016-201511	Sequence 201511, A	C 190	14.2	74.7	2499	2	US-08-485-618-96	Sequence 96, Appli
C 118	14.4	75.8	601	3	US-09-949-016-201717	Sequence 201717, A	C 191	14.2	74.7	2499	2	US-08-605-672-96	Sequence 96, Appli
C 119	14.4	75.8	601	3	US-09-949-016-201718	Sequence 201718, A	C 192	14.2	74.7	2499	2	US-08-482-293A-96	Sequence 96, Appli
C 120	14.4	75.8	741	3	US-09-489-039A-6580	Sequence 6580, App	C 193	14.2	74.7	2499	2	US-08-943-363-96	Sequence 96, Appli
C 121	14.4	75.8	1024	3	US-09-270-767-4898	Sequence 5945, App	C 194	14.2	74.7	2499	3	US-09-193-043-96	Sequence 96, Appli
C 122	14.4	75.8	1024	3	US-09-270-767-4898	Sequence 4898, App	C 195	14.2	74.7	2499	3	US-09-688-307A-96	Sequence 96, Appli
C 123	14.4	75.8	1160	3	US-09-949-016-1218	Sequence 20180, App	C 196	14.2	74.7	2499	3	US-09-350-259-96	Sequence 96, Appli
C 124	14.4	75.8	1301	3	US-09-620-3120-268	Sequence 3258, App	C 197	14.2	74.7	2527	3	US-09-555-790A-1	Sequence 1, Appli
C 125	14.4	75.8	1320	3	US-09-902-540-8364	Sequence 8364, App	C 198	14.2	74.7	2527	3	US-09-202-047A-1	Sequence 1, Appli
C 126	14.4	75.8	1637	3	US-09-799-451-389	Sequence 3, Appli	C 199	14.2	74.7	2527	3	US-09-763-902B-13	Sequence 13, Appli
C 127	14.4	75.8	2711	3	US-09-662-831-3	Sequence 3, Appli	C 200	14.2	74.7	2855	2	US-08-852-153-1	Sequence 1, Appli
C 128	14.4	75.8	2824	3	US-09-662-831-4	Sequence 4, Appli	C 201	14.2	74.7	2873	3	US-10-132-350-1	Sequence 1, Appli
C 129	14.4	75.8	6482	3	US-09-949-016-12960	Sequence 12960, A	C 202	14.2	74.7	2912	3	US-07-718-575-1	Sequence 1, Appli
C 130	14.4	75.8	7225	3	US-09-902-540-876	Sequence 876, App	C 203	14.2	74.7	2992	2	US-08-481-206-1	Sequence 1, Appli
C 131	14.4	75.8	8078	3	US-09-702-251-3	Sequence 3, Appli	C 204	14.2	74.7	2992	2	US-08-486-269A-1	Sequence 989, App
C 132	14.4	75.8	8187	3	US-10-131-827-8866	Sequence 8866, App	C 205	14.2	74.7	3178	3	US-10-104-047-989	Sequence 31, Appli
C 133	14.4	75.8	33349	3	US-09-949-016-17399	Sequence 17399, A	C 206	14.2	74.7	3234	2	US-08-264-534-31	Sequence 10, Appli
C 134	14.4	75.8	48471	3	US-09-949-016-16416	Sequence 16416, A	C 207	14.2	74.7	3234	2	US-08-083-590A-10	Sequence 31, Appli
C 135	14.4	75.8	79787	3	US-09-949-016-13637	Sequence 13637, A	C 208	14.2	74.7	3234	2	US-08-465-500-31	Sequence 31, Appli
C 136	14.4	75.8	83697	3	US-09-949-016-16040	Sequence 16040, A	C 209	14.2	74.7	3234	2	US-08-346-128-31	Sequence 10, Appli
C 137	14.4	75.8	86639	3	US-09-949-016-17397	Sequence 17397, A	C 210	14.2	74.7	3234	3	US-08-532-384-10	Sequence 31, Appli
C 138	14.4	75.8	105210	3	US-09-949-016-14158	Sequence 14158, A	C 211	14.2	74.7	3234	3	US-08-893-828-31	Sequence 5, Appli
C 139	14.4	75.8	194889	3	US-09-949-016-15654	Sequence 15654, A	C 212	14.2	74.7	3251	3	US-09-085-199B-6	Sequence 5, Appli
C 140	14.4	75.8	247781	3	US-09-949-016-14193	Sequence 14193, A	C 213	14.2	74.7	3255	2	US-08-852-153-3	Sequence 1, Appli
C 141	14.4	75.8	321022	3	US-09-949-016-11852	Sequence 11852, A	C 214	14.2	74.7	3297	3	US-09-476-202A-1	Sequence 3, Appli
C 142	14.4	75.8	321022	3	US-09-949-016-14166	Sequence 14166, A	C 215	14.2	74.7	3327	2	US-08-852-153-3	Sequence 1, Appli
C 143	14.2	74.7	187	3	US-09-513-999C-33602	Sequence 33602, A	C 216	14.2	74.7	3726	2	US-08-173-497-1	Sequence 1, Appli
C 144	14.2	74.7	206	3	US-09-513-999C-25145	Sequence 25145, App	C 217	14.2	74.7	3726	2	US-08-286-889-1	Sequence 1, Appli
C 145	14.2	74.7	227	3	US-09-016-434-255	Sequence 255, App	C 218	14.2	74.7	3726	2	US-08-485-618-1	Sequence 1, Appli
C 146	14.2	74.7	346	3	US-09-513-999C-21572	Sequence 21572, A	C 219	14.2	74.7	3726	2	US-08-362-652-1	Sequence 1, Appli
C 147	14.2	74.7	435	3	US-09-434-708-5	Sequence 5, Appli	C 220	14.2	74.7	3726	2	US-08-605-672-1	Sequence 1, Appli
C 148	14.2	74.7	468	3	US-09-621-976-496	Sequence 496, App	C 221	14.2	74.7	3726	2	US-08-482-293A-1	Sequence 1, Appli
C 149	14.2	74.7	540	3	US-09-252-991A-10625	Sequence 10625, A	C 222	14.2	74.7	3726	2	US-08-943-363-1	Sequence 1, Appli
C 150	14.2	74.7	560	3	US-09-854-133-301	Sequence 301, App	C 223	14.2	74.7	3726	3	US-09-193-043-1	Sequence 1, Appli
C 151	14.2	74.7	601	3	US-09-949-016-34815	Sequence 34815, A	C 224	14.2	74.7	3726	3	US-09-688-307A-1	Sequence 1, Appli
C 152	14.2	74.7	601	3	US-09-949-016-34816	Sequence 34816, A	C 225	14.2	74.7	3726	3	US-09-350-259-1	Sequence 1, Appli
C 153	14.2	74.7	601	3	US-09-949-016-39820	Sequence 39820, A	C 226	14.2	74.7	3726	2	US-08-605-672-98	Sequence 98, Appli
C 154	14.2	74.7	601	3	US-09-949-016-42917	Sequence 42917, A	C 227	14.2	74.7	3785	2	US-08-482-293A-98	Sequence 98, Appli
C 155	14.2	74.7	601	3	US-09-949-016-64653	Sequence 64653, A	C 228	14.2	74.7	3785	2	US-08-943-363-98	Sequence 98, Appli
C 156	14.2	74.7	601	3	US-09-949-016-64654	Sequence 64654, A	C 229	14.2	74.7	3785	3	US-09-193-043-98	Sequence 98, Appli
C 157	14.2	74.7	601	3	US-09-949-016-66987	Sequence 66987, A	C 230	14.2	74.7	3785	3	US-09-688-307A-98	Sequence 98, Appli
C 158	14.2	74.7	601	3	US-09-949-016-67271	Sequence 67271, A	C 231	14.2	74.7	3785	3	US-09-350-259-98	Sequence 98, Appli
C 159	14.2	74.7	601	3	US-09-949-016-73396	Sequence 73396, A	C 232	14.2	74.7	3785	3	US-09-485-618-97	Sequence 97, Appli
C 160	14.2	74.7	601	3	US-09-949-016-73397	Sequence 73397, A	C 233	14.2	74.7	3785	2	US-08-485-618-97	Sequence 97, Appli
C 161	14.2	74.7	601	3	US-09-949-016-80917	Sequence 80917, A	C 234	14.2	74.7	3956	2	US-08-605-672-97	Sequence 97, Appli
C 162	14.2	74.7	601	3	US-09-949-016-132600	Sequence 132600, A	C 235	14.2	74.7	3956	2	US-08-482-293A-97	Sequence 97, Appli
C 163	14.2	74.7	601	3	US-09-949-016-169572	Sequence 169572, A	C 236	14.2	74.7	3956	2	US-08-943-363-97	Sequence 97, Appli
C 164	14.2	74.7	601	3	US-09-949-016-177630	Sequence 177630, A	C 237	14.2	74.7	3956	2	US-09-193-043-97	Sequence 97, Appli
C 165	14.2	74.7	601	3	US-09-949-016-177631	Sequence 177631, A	C 238	14.2	74.7	3956	3	US-09-688-307A-97	Sequence 97, Appli
C 166	14.2	74.7	601	3	US-09-949-016-177632	Sequence 177632, A	C 239	14.2	74.7	3956	3	US-09-350-259-97	Sequence 97, Appli
C 167	14.2	74.7	601	3	US-09-949-016-177633	Sequence 177633, A	C 240	14.2	74.7	3956	3	US-08-785-310A-3	Sequence 75, Appli
C 168	14.2	74.7	601	3	US-09-949-016-177634	Sequence 177634, A	C 241	14.2	74.7	4010	2		
C 169	14.2	74.7	601	3	US-09-949-016-189951	Sequence 189951, A	C 242	14.2	74.7	4138	2		
C 170	14.2	74.7	627	3	US-09-252-991A-10868	Sequence 10868, A	C 243	14.2	74.7				

244	14.2	74.7	4138	2	US-08-662-227-33	Sequence 33, Appl	317	14.2	74.7	100463	3	US-09-949-016-12511	Sequence 12511, A
245	14.2	74.7	4138	3	US-09-017-947-33	Sequence 33, Appl	318	14.2	74.7	100468	3	US-09-949-016-13725	Sequence 13725, A
246	14.2	74.7	4138	3	US-09-925-442-33	Sequence 33, Appl	319	14.2	74.7	117838	3	US-09-949-016-17595	Sequence 17595, A
247	14.2	74.7	5080	3	US-09-976-594-495	Sequence 495, App	c 320	14.2	74.7	118136	3	US-09-949-016-12439	Sequence 12439, A
248	14.2	74.7	5211	2	US-08-447-411-1	Sequence 1, Appl	c 321	14.2	74.7	160759	3	US-09-949-016-16514	Sequence 16514, A
249	14.2	74.7	5454	3	US-09-949-016-1972	Sequence 1972, App	c 322	14.2	74.7	174029	3	US-09-949-016-12610	Sequence 12610, A
c 250	14.2	74.7	5452	3	US-09-949-016-1113	Sequence 1113, App	c 323	14.2	74.7	174030	3	US-09-949-016-13880	Sequence 13880, A
c 251	14.2	74.7	5672	3	US-09-023-655-1392	Sequence 1392, App	c 324	14.2	74.7	187916	3	US-09-949-016-12980	Sequence 12980, A
252	14.2	74.7	5924	2	US-08-447-411-44	Sequence 44, Appl	c 325	14.2	74.7	199471	3	US-09-949-016-14083	Sequence 14083, A
253	14.2	74.7	5948	2	US-08-662-227-1	Sequence 1, Appl	c 326	14.2	74.7	373182	3	US-09-949-016-17371	Sequence 17371, A
254	14.2	74.7	5948	3	US-09-017-947-1	Sequence 1, Appl	c 327	14.2	74.7	373594	3	US-09-949-016-12062	Sequence 12062, A
255	14.2	74.7	5948	3	US-09-925-442-1	Sequence 1, Appl	c 328	14.2	74.7	450395	3	US-09-949-016-15473	Sequence 15473, A
256	14.2	74.7	7350	2	US-07-865-662F-14	Sequence 14, Appl	c 329	14	73.7	533	3	US-09-513-999C-13604	Sequence 13604, A
257	14.2	74.7	7350	3	US-08-374-219B-16	Sequence 16, Appl	c 330	14	73.7	601	3	US-09-949-016-25536	Sequence 25536, A
258	14.2	74.7	8404	3	US-09-973-278-840	Sequence 840, App	c 331	14	73.7	601	3	US-09-949-016-59435	Sequence 59435, A
259	14.2	74.7	8693	3	US-09-949-016-14042	Sequence 14042, A	c 332	14	73.7	601	3	US-09-949-016-94143	Sequence 94143, A
260	14.2	74.7	8738	3	US-09-902-540-873	Sequence 873, App	c 333	14	73.7	601	3	US-09-949-016-13103	Sequence 131103, A
261	14.2	74.7	8820	3	US-09-902-540-974	Sequence 974, App	c 334	14	73.7	601	3	US-09-949-016-13104	Sequence 131104, A
262	14.2	74.7	9161	3	US-09-973-278-839	Sequence 839, App	c 335	14	73.7	601	3	US-09-949-016-13105	Sequence 131105, A
263	14.2	74.7	9162	3	US-09-973-278-841	Sequence 841, App	c 336	14	73.7	601	3	US-09-949-016-13106	Sequence 131106, A
c 264	14.2	74.7	9406	3	US-09-949-016-17494	Sequence 17494, A	c 337	14	73.7	601	3	US-09-949-016-160622	Sequence 160622, A
c 265	14.2	74.7	10223	3	US-09-949-016-14500	Sequence 14500, A	c 338	14	73.7	601	3	US-09-949-016-160623	Sequence 160623, A
c 266	14.2	74.7	10348	2	US-08-457-273B-41	Sequence 41, Appl	c 339	14	73.7	601	3	US-09-949-016-160624	Sequence 160624, A
c 267	14.2	74.7	10348	3	US-08-556-419-13	Sequence 13, Appl	c 340	14	73.7	601	3	US-09-949-016-179785	Sequence 179785, A
c 268	14.2	74.7	10348	3	US-09-041-886-14	Sequence 14, Appl	c 341	14	73.7	997	3	US-09-690-454-33	Sequence 33, Appl
c 269	14.2	74.7	10366	2	US-08-246-982A-5	Sequence 5, Appl	c 342	14	73.7	1236	3	US-09-016-434-717	Sequence 717, App
c 270	14.2	74.7	10366	2	US-08-453-265-5	Sequence 5, Appl	c 343	14	73.7	1243	2	US-08-702-344-27	Sequence 27, Appl
271	14.2	74.7	10952	2	US-08-602-036A-1	Sequence 1, Appl	c 344	14	73.7	1404	3	US-09-489-039A-2522	Sequence 2522, App
272	14.2	74.7	10952	2	US-08-502-374B-1	Sequence 1, Appl	c 345	14	73.7	2065	3	US-10-104-047-920	Sequence 920, App
273	14.2	74.7	10952	2	US-08-642-407A-1	Sequence 1, Appl	c 346	14	73.7	3611	3	US-09-221-017B-877	Sequence 877, App
c 274	14.2	74.7	11366	3	US-09-949-016-13616	Sequence 13616, A	c 347	14	73.7	17730	3	US-09-949-016-12123	Sequence 12123, A
c 275	14.2	74.7	11808	3	US-09-949-016-15281	Sequence 15281, A	c 348	14	73.7	17731	3	US-09-949-016-13472	Sequence 13472, A
276	14.2	74.7	11874	3	US-09-949-016-17115	Sequence 17115, A	c 349	14	73.7	29393	3	US-09-949-016-17024	Sequence 17024, A
277	14.2	74.7	12047	2	US-09-022-461-1	Sequence 1, Appl	c 350	14	73.7	61847	3	US-09-949-016-16577	Sequence 16577, A
278	14.2	74.7	12047	3	US-09-033-556-3	Sequence 3, Appl	c 351	14	73.7	87870	3	US-09-949-016-14461	Sequence 14461, A
279	14.2	74.7	12047	3	US-09-474-699-11	Sequence 11, Appl	c 352	14	73.7	97423	3	US-09-949-016-12742	Sequence 12742, A
280	14.2	74.7	12047	3	US-09-151-376-3	Sequence 3, Appl	c 353	14	73.7	97424	3	US-09-949-016-15576	Sequence 15576, A
281	14.2	74.7	12047	3	US-09-814-351-11	Sequence 11, Appl	c 354	14	73.7	151088	3	US-09-949-016-16240	Sequence 16240, A
282	14.2	74.7	12047	3	US-09-392-822A-4	Sequence 4, Appl	c 355	14	73.7	162018	3	US-09-949-016-12617	Sequence 12617, A
283	14.2	74.7	12047	3	US-09-814-357-11	Sequence 11, Appl	c 356	14	73.7	160018	3	US-09-949-016-15994	Sequence 15994, A
284	14.2	74.7	12047	3	US-09-875-228-1	Sequence 1, Appl	c 357	14	73.7	199945	3	US-09-949-016-15436	Sequence 15436, A
285	14.2	74.7	12707	3	US-09-949-016-16828	Sequence 16828, A	c 358	14	73.7	390416	3	US-09-949-016-16323	Sequence 16323, A
c 286	14.2	74.7	13104	3	US-09-949-016-13714	Sequence 13714, A	c 359	14	73.7	786431	3	US-09-751-389-3	Sequence 3, Appl
c 287	14.2	74.7	13108	3	US-09-949-016-12855	Sequence 12855, A	c 360	13.8	72.6	25	3	US-09-396-196G-9651	Sequence 9651, App
288	14.2	74.7	15454	3	US-09-949-016-16679	Sequence 16679, A	c 361	13.8	72.6	25	3	US-09-396-196G-9652	Sequence 9652, App
289	14.2	74.7	15593	3	US-09-949-016-17177	Sequence 17177, A	c 362	13.8	72.6	185	2	US-09-396-196G-106350	Sequence 106350, A
c 290	14.2	74.7	18079	3	US-09-949-016-13344	Sequence 13344, A	c 363	13.8	72.6	121	3	US-09-818-875-1796	Sequence 1796, App
c 291	14.2	74.7	18417	3	US-09-949-016-13389	Sequence 13389, A	c 364	13.8	72.6	121	3	US-09-818-875-1797	Sequence 1797, App
c 292	14.2	74.7	21777	3	US-09-476-202A-3	Sequence 3, Appl	c 365	13.8	72.6	163	3	US-09-313-294A-3099	Sequence 3099, App
c 293	14.2	74.7	29930	3	US-09-949-016-15326	Sequence 15326, A	c 366	13.8	72.6	185	2	US-09-396-196G-9652	Sequence 9652, App
c 294	14.2	74.7	34276	3	US-09-949-016-12263	Sequence 12263, A	c 367	13.8	72.6	185	2	US-09-396-196G-9652	Sequence 9652, App
c 295	14.2	74.7	34278	3	US-09-949-016-16103	Sequence 16103, A	c 368	13.8	72.6	221	3	US-09-453-702B-10	Sequence 10, Appl
c 296	14.2	74.7	39754	3	US-09-949-016-14889	Sequence 14889, A	c 369	13.8	72.6	221	3	US-10-114-170-10	Sequence 10, Appl
c 297	14.2	74.7	42157	3	US-08-311-731A-126	Sequence 126, App	c 370	13.8	72.6	226	3	US-09-364-206-30	Sequence 30, Appl
c 298	14.2	74.7	42250	3	US-09-949-016-15426	Sequence 15426, A	c 371	13.8	72.6	259	3	US-09-364-206-12	Sequence 12, Appl
c 299	14.2	74.7	42989	3	US-09-949-016-12291	Sequence 12291, A	c 372	13.8	72.6	320	3	US-09-313-294A-6936	Sequence 6936, App
c 300	14.2	74.7	42992	3	US-09-949-016-15428	Sequence 15428, A	c 373	13.8	72.6	358	2	US-07-925-920-1	Sequence 1, Appl
c 301	14.2	74.7	45927	3	US-09-949-016-16243	Sequence 16243, A	c 374	13.8	72.6	366	3	US-09-621-976-16903	Sequence 16903, A
c 302	14.2	74.7	61158	3	US-09-949-016-15041	Sequence 15041, A	c 375	13.8	72.6	402	3	US-09-270-767-26943	Sequence 26943, A
c 303	14.2	74.7	63187	3	US-09-949-016-12682	Sequence 12682, A	c 376	13.8	72.6	485	3	US-09-621-976-10403	Sequence 10403, A
c 304	14.2	74.7	63187	3	US-09-949-016-16288	Sequence 16288, A	c 377	13.8	72.6	488	3	US-09-364-206-9	Sequence 9, Appl
c 305	14.2	74.7	65300	3	US-09-949-016-16813	Sequence 16813, A	c 378	13.8	72.6	517	3	US-09-621-976-1687	Sequence 1687, App
c 306	14.2	74.7	66213	3	US-09-949-016-11803	Sequence 11803, A	c 379	13.8	72.6	586	3	US-09-364-206-10	Sequence 10, Appl
c 307	14.2	74.7	66213	3	US-09-949-016-16739	Sequence 16739, A	c 380	13.8	72.6	590	3	US-09-270-767-14396	Sequence 14396, A
c 308	14.2	74.7	68719	3	US-09-949-016-12799	Sequence 12799, A	c 381	13.8	72.6	601	3	US-09-949-016-18112	Sequence 18112, A
c 309	14.2	74.7	68720	3	US-09-949-016-14296	Sequence 14296, A	c 382	13.8	72.6	601	3	US-09-949-016-18113	Sequence 18113, A
c 310	14.2	74.7	70000	3	US-09-851-896-3	Sequence 3, Appl	c 383	13.8	72.6	601	3	US-09-949-016-18114	Sequence 18114, A
c 311	14.2	74.7	70383	3	US-10-283-247-3	Sequence 3, Appl	c 384	13.8	72.6	601	3	US-09-949-016-24371	Sequence 24371, A
c 312	14.2	74.7	73757	3	US-09-949-016-15369	Sequence 15369, A	c 385	13.8	72.6	601	3	US-09-949-016-33641	Sequence 33641, A
c 313	14.2	74.7	75431	3	US-09-949-016-15122	Sequence 15122, A	c 386	13.8	72.6	601	3	US-09-949-016-40679	Sequence 40679, A
c 314	14.2	74.7	76399	3	US-09-949-016-16819	Sequence 16819, A	c 387	13.8	72.6	601	3	US-09-949-016-42837	Sequence 42837, A
c 315	14.2	74.7	87562	3	US-09-949-016-13685	Sequence 13685, A	c 388	13.8	72.6	601	3	US-09-949-016-42838	Sequence 42838, A
316	14.2	74.7	93894	3	US-09-949-016-13629	Sequence 13629, A	c 389	13.8	72.6	601	3	US-09-949-016-42839	Sequence 42839, A

C 390	13.8	72.6	601	3	US-09-949-016-42840	Sequence 42840, A	C 463	13.8	72.6	2095	3	US-09-456-886-16	Sequence 16, Appl
C 391	13.8	72.6	601	3	US-09-949-016-43902	Sequence 43902, A	C 464	13.8	72.6	2095	3	US-09-824-847-16	Sequence 16, Appl
C 392	13.8	72.6	601	3	US-09-949-016-51622	Sequence 51622, A	C 465	13.8	72.6	2095	3	US-09-880-642-16	Sequence 16, Appl
C 393	13.8	72.6	601	3	US-09-949-016-51623	Sequence 51623, A	C 466	13.8	72.6	2152	3	US-09-016-434-1305	Sequence 1305, Ap
C 394	13.8	72.6	601	3	US-09-949-016-51624	Sequence 51624, A	C 467	13.8	72.6	2152	3	US-09-023-655-1282	Sequence 1282, Ap
C 395	13.8	72.6	601	3	US-09-949-016-59182	Sequence 59182, A	C 468	13.8	72.6	2154	3	US-09-949-016-3904	Sequence 3904, Ap
C 396	13.8	72.6	601	3	US-09-949-016-59183	Sequence 59183, A	C 469	13.8	72.6	2161	3	US-09-620-312D-1053	Sequence 1053, Ap
C 397	13.8	72.6	601	3	US-09-949-016-59184	Sequence 59184, A	C 470	13.8	72.6	2170	3	US-09-799-451-168	Sequence 168, App
C 398	13.8	72.6	601	3	US-09-949-016-62481	Sequence 62481, A	C 471	13.8	72.6	2211	3	US-09-799-451-181	Sequence 181, App
C 399	13.8	72.6	601	3	US-09-949-016-76384	Sequence 76384, A	C 472	13.8	72.6	2230	3	US-09-620-312D-1052	Sequence 1052, Ap
C 400	13.8	72.6	601	3	US-09-949-016-86476	Sequence 86476, A	C 473	13.8	72.6	2276	3	US-10-104-047-624	Sequence 624, App
C 401	13.8	72.6	601	3	US-09-949-016-87179	Sequence 87179, A	C 474	13.8	72.6	2470	3	US-09-091-725-18	Sequence 18, Appl
C 402	13.8	72.6	601	3	US-09-949-016-88410	Sequence 88410, A	C 475	13.8	72.6	2546	3	US-09-091-725-12	Sequence 12, Appl
C 403	13.8	72.6	601	3	US-09-949-016-88411	Sequence 88411, A	C 476	13.8	72.6	2556	3	US-08-976-259-61	Sequence 61, Appl
C 404	13.8	72.6	601	3	US-09-949-016-92391	Sequence 92391, A	C 477	13.8	72.6	2556	3	US-09-956-004-61	Sequence 61, Appl
C 405	13.8	72.6	601	3	US-09-949-016-94167	Sequence 94167, A	C 478	13.8	72.6	2767	3	US-09-949-016-401	Sequence 401, App
C 406	13.8	72.6	601	3	US-09-949-016-138740	Sequence 138740, A	C 479	13.8	72.6	2907	3	US-09-232-200-52	Sequence 52, Appl
C 407	13.8	72.6	601	3	US-09-949-016-173022	Sequence 173022, A	C 480	13.8	72.6	2907	3	US-09-232-197-52	Sequence 52, Appl
C 408	13.8	72.6	601	3	US-09-949-016-176123	Sequence 176123, A	C 481	13.8	72.6	2907	3	US-09-232-201-52	Sequence 52, Appl
C 409	13.8	72.6	601	3	US-09-949-016-176124	Sequence 176124, A	C 482	13.8	72.6	2907	3	US-09-232-195-52	Sequence 52, Appl
C 410	13.8	72.6	601	3	US-09-949-016-195266	Sequence 195266, A	C 483	13.8	72.6	2917	3	US-09-232-200-26	Sequence 26, Appl
C 411	13.8	72.6	601	3	US-09-949-016-195267	Sequence 195267, A	C 484	13.8	72.6	2917	3	US-09-232-197-26	Sequence 26, Appl
C 412	13.8	72.6	601	3	US-09-949-016-195268	Sequence 195268, A	C 485	13.8	72.6	2917	3	US-09-232-201-26	Sequence 26, Appl
C 413	13.8	72.6	601	3	US-09-949-016-195269	Sequence 195269, A	C 486	13.8	72.6	2917	3	US-09-232-195-26	Sequence 26, Appl
C 414	13.8	72.6	601	3	US-09-949-016-199542	Sequence 199542, A	C 487	13.8	72.6	3057	2	US-08-551-459-3	Sequence 3, Appl
C 415	13.8	72.6	601	3	US-09-949-016-200935	Sequence 200935, A	C 488	13.8	72.6	3116	3	US-09-904-615-43	Sequence 43, Appl
C 416	13.8	72.6	601	3	US-09-949-016-205422	Sequence 205422, A	C 489	13.8	72.6	3116	3	US-10-054-988-43	Sequence 43, Appl
C 417	13.8	72.6	601	3	US-09-949-016-205423	Sequence 205423, A	C 490	13.8	72.6	3237	3	US-08-451-946B-5	Sequence 5, Appl
C 418	13.8	72.6	611	3	US-09-270-767-11377	Sequence 11377, A	C 491	13.8	72.6	3237	3	US-08-446-938B-5	Sequence 5, Appl
C 419	13.8	72.6	634	3	US-09-364-206-11	Sequence 11, Appl	C 492	13.8	72.6	3237	3	US-08-311-703A-5	Sequence 5, Appl
C 420	13.8	72.6	663	3	US-09-854-133-460	Sequence 460, App	C 493	13.8	72.6	3237	3	US-08-446-939B-5	Sequence 5, Appl
C 421	13.8	72.6	684	3	US-09-335-224B-5	Sequence 5, Appl	C 494	13.8	72.6	3237	3	US-09-183-543-5	Sequence 5, Appl
C 422	13.8	72.6	684	3	US-09-625-191B-5	Sequence 5, Appl	C 495	13.8	72.6	3237	3	US-08-446-936A-5	Sequence 5, Appl
C 423	13.8	72.6	700	3	US-09-171-209-53	Sequence 53, Appl	C 496	13.8	72.6	3237	6	PCT-US92-09326-1	Sequence 1, Appl
C 424	13.8	72.6	734	3	US-09-232-191-16	Sequence 16, Appl	C 497	13.8	72.6	3267	3	US-09-328-352-1597	Sequence 1597, Ap
C 425	13.8	72.6	734	3	US-09-232-197-16	Sequence 16, Appl	C 498	13.8	72.6	3466	2	US-08-551-459-5	Sequence 5, Appl
C 426	13.8	72.6	734	3	US-09-232-200-16	Sequence 16, Appl	C 499	13.8	72.6	3921	3	US-09-949-016-628	Sequence 628, App
C 427	13.8	72.6	734	3	US-09-232-201-16	Sequence 16, Appl	C 500	13.8	72.6	3921	3	US-09-949-016-2120	Sequence 2120, Ap
C 428	13.8	72.6	734	3	US-09-232-195-16	Sequence 16, Appl	C 501	13.8	72.6	4047	3	US-09-081-385-1	Sequence 1, Appl
C 429	13.8	72.6	761	3	US-10-002-344A-30	Sequence 30, Appl	C 502	13.8	72.6	4047	3	US-09-081-385-147	Sequence 147, App
C 430	13.8	72.6	900	3	US-09-589-927-3	Sequence 3, Appl	C 503	13.8	72.6	4047	3	US-09-752-639-1	Sequence 1, Appl
C 431	13.8	72.6	900	3	US-09-277-665-3	Sequence 3, Appl	C 504	13.8	72.6	4047	3	US-09-752-639-147	Sequence 147, App
C 432	13.8	72.6	900	3	US-09-589-987-3	Sequence 3, Appl	C 505	13.8	72.6	4047	3	US-09-712-813-1	Sequence 1, Appl
C 433	13.8	72.6	1029	3	US-09-270-767-13603	Sequence 13603, A	C 506	13.8	72.6	4047	3	US-09-712-813-147	Sequence 147, App
C 434	13.8	72.6	1170	3	US-09-252-991A-13367	Sequence 13367, A	C 507	13.8	72.6	4047	3	US-09-700-354A-1	Sequence 1, Appl
C 435	13.8	72.6	1400	3	US-09-774-490-5	Sequence 5, Appl	C 508	13.8	72.6	4047	3	US-09-700-354A-147	Sequence 147, App
C 436	13.8	72.6	1401	3	US-09-489-039A-483	Sequence 483, App	C 509	13.8	72.6	4175	3	US-09-548-473B-2	Sequence 2, Appl
C 437	13.8	72.6	1642	3	US-10-104-047-827	Sequence 827, App	C 510	13.8	72.6	4359	3	US-09-484-970B-4	Sequence 4, Appl
C 438	13.8	72.6	1658	3	US-10-002-344A-31	Sequence 31, Appl	C 511	13.8	72.6	4584	2	US-08-901-200A-15	Sequence 15, Appl
C 439	13.8	72.6	1695	3	US-09-252-991A-12739	Sequence 12739, A	C 512	13.8	72.6	4584	3	US-09-219-391-15	Sequence 15, Appl
C 440	13.8	72.6	1744	3	US-09-599-360B-41	Sequence 41, Appl	C 513	13.8	72.6	5007	3	US-09-548-473B-3	Sequence 3, Appl
C 441	13.8	72.6	1744	3	US-09-599-361-1	Sequence 1, Appl	C 514	13.8	72.6	5128	3	US-09-364-206-1	Sequence 1, Appl
C 442	13.8	72.6	1767	2	US-07-668-648-1	Sequence 1, Appl	C 515	13.8	72.6	5207	3	US-09-858-664A-1	Sequence 1, Appl
C 443	13.8	72.6	1767	2	US-08-429-998-1	Sequence 1, Appl	C 516	13.8	72.6	5207	3	US-10-274-978-1	Sequence 1, Appl
C 444	13.8	72.6	1767	2	US-08-431-333-1	Sequence 1, Appl	C 517	13.8	72.6	5207	3	US-10-274-978-3	Sequence 3, Appl
C 445	13.8	72.6	1767	6	PCT-US91-02321-1	Sequence 1, Appl	C 518	13.8	72.6	5207	3	US-10-697-263-1	Sequence 1, Appl
C 446	13.8	72.6	1779	2	US-07-668-648-3	Sequence 3, Appl	C 519	13.8	72.6	5207	3	US-10-697-263-3	Sequence 3, Appl
C 447	13.8	72.6	1779	2	US-08-429-998-3	Sequence 3, Appl	C 520	13.8	72.6	5876	3	US-10-006-611-3	Sequence 3, Appl
C 448	13.8	72.6	1779	2	US-08-431-333-3	Sequence 3, Appl	C 521	13.8	72.6	6101	3	US-09-949-016-1376	Sequence 1376, Ap
C 449	13.8	72.6	1779	6	PCT-US91-02321-3	Sequence 3, Appl	C 522	13.8	72.6	6226	2	US-08-542-363-1	Sequence 1, Appl
C 450	13.8	72.6	1820	3	US-09-949-016-1855	Sequence 1855, Ap	C 523	13.8	72.6	6226	3	US-09-100-089-1	Sequence 1, Appl
C 451	13.8	72.6	1836	3	US-09-248-796A-2933	Sequence 2933, Ap	C 524	13.8	72.6	6226	3	US-09-670-827-1	Sequence 1, Appl
C 452	13.8	72.6	1896	3	US-09-232-200-30	Sequence 30, Appl	C 525	13.8	72.6	6226	3	US-09-827-949-1	Sequence 1, Appl
C 453	13.8	72.6	1896	3	US-09-232-197-30	Sequence 30, Appl	C 526	13.8	72.6	6418	2	US-08-480-528A-11	Sequence 11, Appl
C 454	13.8	72.6	1896	3	US-09-232-201-30	Sequence 30, Appl	C 527	13.8	72.6	6418	2	US-08-479-666-11	Sequence 11, Appl
C 455	13.8	72.6	1896	3	US-09-232-195-30	Sequence 30, Appl	C 528	13.8	72.6	6418	6	PCT-US93-10520-11	Sequence 11, Appl
C 456	13.8	72.6	1952	3	US-09-919-039-101	Sequence 101, App	C 529	13.8	72.6	6585	3	US-08-746-111-4	Sequence 4, Appl
C 457	13.8	72.6	1992	3	US-09-220-132-55	Sequence 55, Appl	C 530	13.8	72.6	7017	3	US-09-949-016-67	Sequence 67, Appl
C 458	13.8	72.6	1994	3	US-09-949-016-5807	Sequence 5807, Ap	C 531	13.8	72.6	7928	3	US-09-548-473B-5	Sequence 5, Appl
C 459	13.8	72.6	2081	3	US-09-949-016-5839	Sequence 5839, Ap	C 532	13.8	72.6	8442	3	US-09-272-032-6	Sequence 6, Appl
C 460	13.8	72.6	2095	3	US-08-991-862-16	Sequence 16, Appl	C 533	13.8	72.6	9781	3	US-09-949-016-14234	Sequence 14234, A
C 461	13.8	72.6	2095	3	US-09-023-655-1098	Sequence 1098, Ap	C 534	13.8	72.6	10236	3	US-09-949-016-12492	Sequence 12492, A
C 462	13.8	72.6	2095	3	US-09-813-156-16	Sequence 16, Appl	C 535	13.8	72.6	10237	3	US-09-949-016-13859	Sequence 13859, A

c 536	13.8	72.6	11835	3	US-09-949-016-15646	Sequence 15646, A	609	13.8	72.6	141115	3	US-09-949-016-17490	Sequence 17490, A
c 537	13.8	72.6	12214	3	US-09-949-016-17284	Sequence 17284, A	610	13.8	72.6	152582	3	US-09-949-016-17086	Sequence 17086, A
c 538	13.8	72.6	12886	3	US-09-807-007-5	Sequence 5, Appl	611	13.8	72.6	152583	3	US-09-949-016-17390	Sequence 17390, A
c 539	13.8	72.6	15044	3	US-09-949-002-675	Sequence 675, App	612	13.8	72.6	152583	3	US-09-949-016-17391	Sequence 17391, A
c 540	13.8	72.6	15044	3	US-09-949-002-710	Sequence 710, App	c 613	13.8	72.6	152583	3	US-09-949-016-13870	Sequence 13870, A
c 541	13.8	72.6	15378	3	US-08-785-430-1	Sequence 1, Appl	c 614	13.8	72.6	152583	3	US-09-949-016-13870	Sequence 13870, A
c 542	13.8	72.6	15775	3	US-09-949-016-16550	Sequence 16550, A	c 615	13.8	72.6	153664	3	US-09-949-016-13546	Sequence 13546, A
c 543	13.8	72.6	16013	3	US-09-949-016-12988	Sequence 12988, A	c 616	13.8	72.6	163664	3	US-09-949-016-13546	Sequence 13546, A
c 544	13.8	72.6	19761	3	US-09-949-016-14236	Sequence 14236, A	617	13.8	72.6	169998	3	US-09-949-016-13546	Sequence 13546, A
c 545	13.8	72.6	19762	3	US-09-949-016-12814	Sequence 12814, A	618	13.8	72.6	183112	3	US-09-949-016-14184	Sequence 14184, A
c 546	13.8	72.6	19910	3	US-09-949-002-638	Sequence 638, App	619	13.8	72.6	197496	3	US-09-877-177A-10	Sequence 10, Appl
c 547	13.8	72.6	19910	3	US-09-949-002-769	Sequence 769, App	620	13.8	72.6	254405	3	US-09-949-016-14381	Sequence 14381, A
c 548	13.8	72.6	22459	3	US-09-973-278-883	Sequence 883, App	c 621	13.8	72.6	254964	3	US-09-949-016-12583	Sequence 12583, A
c 549	13.8	72.6	23796	3	US-09-949-016-17581	Sequence 17581, A	c 622	13.8	72.6	254964	3	US-09-949-016-17392	Sequence 17392, A
c 550	13.8	72.6	24345	3	US-09-949-016-17549	Sequence 17549, A	623	13.8	72.6	264206	3	US-09-949-016-12731	Sequence 12731, A
c 551	13.8	72.6	34063	3	US-09-453-702B-96	Sequence 96, Appl	624	13.8	72.6	264304	3	US-09-949-016-13249	Sequence 13249, A
c 552	13.8	72.6	34063	3	US-10-114-170-96	Sequence 96, Appl	625	13.8	72.6	264304	3	US-09-949-016-15974	Sequence 15974, A
c 553	13.8	72.6	34172	3	US-09-949-016-14432	Sequence 14432, A	626	13.8	72.6	264304	3	US-09-949-016-15974	Sequence 15974, A
c 554	13.8	72.6	35100	2	US-08-306-691B-19	Sequence 19, Appl	627	13.8	72.6	264304	3	US-09-949-016-12062	Sequence 12062, A
c 555	13.8	72.6	35100	6	PCT-US93-06251B-19	Sequence 19, Appl	628	13.8	72.6	264304	3	US-09-949-016-12900	Sequence 12900, A
c 556	13.8	72.6	38155	3	US-09-453-702B-79	Sequence 79, Appl	629	13.8	72.6	264304	3	US-09-949-016-12900	Sequence 12900, A
c 557	13.8	72.6	38155	3	US-10-114-170-79	Sequence 79, Appl	630	13.8	72.6	264304	3	US-09-949-016-12900	Sequence 12900, A
c 558	13.8	72.6	38559	3	US-09-949-016-13384	Sequence 13384, A	c 631	13.8	72.6	264304	3	US-08-712-241-8	Sequence 8, Appl
c 559	13.8	72.6	38559	3	US-09-949-016-13385	Sequence 13385, A	632	13.8	72.6	264304	3	US-09-313-294A-1541	Sequence 1541, Ap
c 560	13.8	72.6	38559	3	US-09-949-016-13386	Sequence 13386, A	633	13.8	72.6	264304	3	US-09-513-999C-20560	Sequence 20560, A
c 561	13.8	72.6	43537	3	US-09-949-016-13458	Sequence 13458, A	634	13.8	72.6	264304	3	US-09-513-999C-11573	Sequence 11573, A
c 562	13.8	72.6	43537	3	US-09-949-016-12172	Sequence 12172, A	635	13.8	72.6	264304	3	US-09-621-976-11390	Sequence 11390, A
c 563	13.8	72.6	43933	3	US-09-949-016-13406	Sequence 13406, A	636	13.8	72.6	264304	3	US-09-489-039A-5511	Sequence 5511, Ap
c 564	13.8	72.6	44338	3	US-09-949-016-12978	Sequence 12978, A	637	13.8	72.6	264304	3	US-09-740-235-3	Sequence 3, Appl
c 565	13.8	72.6	45175	3	US-09-453-702B-116	Sequence 116, App	c 638	13.8	72.6	264304	3	US-09-252-991A-8207	Sequence 8207, Ap
c 566	13.8	72.6	45175	3	US-10-114-170-116	Sequence 116, App	639	13.8	72.6	264304	3	US-09-573-080A-280	Sequence 280, App
c 567	13.8	72.6	46745	3	US-09-949-016-13964	Sequence 13964, A	640	13.8	72.6	264304	3	US-09-893-377-57	Sequence 57, Appl
c 568	13.8	72.6	46745	3	US-09-453-702B-60	Sequence 60, Appl	641	13.8	72.6	264304	3	US-09-949-016-18155	Sequence 18155, A
c 569	13.8	72.6	49795	3	US-10-114-170-60	Sequence 60, Appl	642	13.8	72.6	264304	3	US-09-949-016-18156	Sequence 18156, A
c 570	13.8	72.6	50453	3	US-09-949-016-16642	Sequence 16642, A	643	13.8	72.6	264304	3	US-09-949-016-39128	Sequence 39128, A
c 571	13.8	72.6	50797	3	US-09-949-016-16346	Sequence 16346, A	644	13.8	72.6	264304	3	US-09-949-016-39129	Sequence 39129, A
c 572	13.8	72.6	50797	3	US-09-949-016-16347	Sequence 16347, A	645	13.8	72.6	264304	3	US-09-949-016-43956	Sequence 43956, A
c 573	13.8	72.6	51242	3	US-09-949-016-12486	Sequence 12486, A	646	13.8	72.6	264304	3	US-09-949-016-43957	Sequence 43957, A
c 574	13.8	72.6	55806	3	US-09-949-016-15605	Sequence 15605, A	647	13.8	72.6	264304	3	US-09-949-016-47109	Sequence 47109, A
c 575	13.8	72.6	55977	3	US-09-949-016-12259	Sequence 12259, A	648	13.8	72.6	264304	3	US-09-949-016-49939	Sequence 49939, A
c 576	13.8	72.6	59978	3	US-09-949-016-15397	Sequence 15397, A	649	13.8	72.6	264304	3	US-09-949-016-64960	Sequence 64960, A
c 577	13.8	72.6	61124	3	US-09-949-016-11914	Sequence 11914, A	650	13.8	72.6	264304	3	US-09-949-016-64961	Sequence 64961, A
c 578	13.8	72.6	61140	3	US-09-949-016-15771	Sequence 15771, A	651	13.8	72.6	264304	3	US-09-949-016-82857	Sequence 82857, A
c 579	13.8	72.6	61663	3	US-09-453-702B-62	Sequence 62, Appl	652	13.8	72.6	264304	3	US-09-949-016-82858	Sequence 82858, A
c 580	13.8	72.6	61663	3	US-10-114-170-62	Sequence 62, Appl	653	13.8	72.6	264304	3	US-09-949-016-87235	Sequence 87235, A
c 581	13.8	72.6	63658	3	US-09-949-016-13238	Sequence 13238, A	654	13.8	72.6	264304	3	US-09-949-016-123975	Sequence 123975, A
c 582	13.8	72.6	64489	3	US-09-949-016-11766	Sequence 11766, A	655	13.8	72.6	264304	3	US-09-949-016-125671	Sequence 125671, A
c 583	13.8	72.6	66933	3	US-09-544-398B-11	Sequence 11, Appl	656	13.8	72.6	264304	3	US-09-949-016-125672	Sequence 125672, A
c 584	13.8	72.6	66933	3	US-09-543-771B-11	Sequence 11, Appl	657	13.8	72.6	264304	3	US-09-949-016-133943	Sequence 133943, A
c 585	13.8	72.6	71387	3	US-09-949-016-16754	Sequence 16754, A	658	13.8	72.6	264304	3	US-09-949-016-135442	Sequence 135442, A
c 586	13.8	72.6	72049	3	US-09-544-398B-9	Sequence 9, Appl	659	13.8	72.6	264304	3	US-09-949-016-143249	Sequence 143249, A
c 587	13.8	72.6	72049	3	US-09-543-771B-9	Sequence 9, Appl	660	13.8	72.6	264304	3	US-09-949-016-143249	Sequence 143249, A
c 588	13.8	72.6	72602	3	US-09-949-016-14385	Sequence 14385, A	661	13.8	72.6	264304	3	US-09-949-016-160933	Sequence 160933, A
c 589	13.8	72.6	83851	3	US-09-949-016-13847	Sequence 13847, A	662	13.8	72.6	264304	3	US-09-949-016-160934	Sequence 160934, A
c 590	13.8	72.6	84525	3	US-09-949-016-16678	Sequence 16678, A	663	13.8	72.6	264304	3	US-09-949-016-160957	Sequence 160957, A
c 591	13.8	72.6	86945	3	US-09-949-016-13849	Sequence 13849, A	664	13.8	72.6	264304	3	US-09-949-016-160958	Sequence 160958, A
c 592	13.8	72.6	86945	3	US-09-949-016-13850	Sequence 13850, A	665	13.8	72.6	264304	3	US-09-949-016-161814	Sequence 161814, A
c 593	13.8	72.6	86945	3	US-09-949-016-13851	Sequence 13851, A	666	13.8	72.6	264304	3	US-09-949-016-161815	Sequence 161815, A
c 594	13.8	72.6	86945	3	US-09-949-016-13852	Sequence 13852, A	667	13.8	72.6	264304	3	US-09-949-016-163359	Sequence 163359, A
c 595	13.8	72.6	86945	3	US-09-949-016-13853	Sequence 13853, A	668	13.8	72.6	264304	3	US-09-949-016-165952	Sequence 165952, A
c 596	13.8	72.6	86945	3	US-09-949-016-13854	Sequence 13854, A	669	13.8	72.6	264304	3	US-09-949-016-165953	Sequence 165953, A
c 597	13.8	72.6	86945	3	US-09-949-016-13855	Sequence 13855, A	670	13.8	72.6	264304	3	US-09-949-016-165954	Sequence 165954, A
c 598	13.8	72.6	86945	3	US-09-949-016-13856	Sequence 13856, A	671	13.8	72.6	264304	3	US-09-949-016-174572	Sequence 174572, A
c 599	13.8	72.6	86945	3	US-09-949-016-13857	Sequence 13857, A	672	13.8	72.6	264304	3	US-09-949-016-174573	Sequence 174573, A
c 600	13.8	72.6	86945	3	US-09-949-016-13858	Sequence 13858, A	673	13.8	72.6	264304	3	US-09-949-002-1263	Sequence 1263, Ap
c 601	13.8	72.6	87870	3	US-09-949-016-14461	Sequence 14461, A	674	13.8	72.6	264304	3	US-09-949-002-1263	Sequence 1263, Ap
c 602	13.8	72.6	904019	3	US-09-949-016-13203	Sequence 13203, A	675	13.8	72.6	264304	3	US-09-949-002-3456	Sequence 3456, Ap
c 603	13.8	72.6	106746	3	US-09-326-402C-1	Sequence 1, Appl	676	13.8	72.6	264304	3	US-09-949-002-3457	Sequence 3457, Ap
c 604	13.8	72.6	106746	3	US-09-326-402C-12	Sequence 12, Appl	677	13.8	72.6	264304	3	US-09-949-002-3678	Sequence 3678, Ap
c 605	13.8	72.6	107800	3	US-09-949-016-13118	Sequence 13118, A	678	13.8	72.6	264304	3	US-09-949-002-3680	Sequence 3680, Ap
c 606	13.8	72.6	116425	3	US-09-949-016-11809	Sequence 11809, A	679	13.8	72.6	264304	3	US-09-949-002-3681	Sequence 3681, Ap
c 607	13.8	72.6	138282	3	US-09-949-016-15307	Sequence 15307, A	680	13.8	72.6	264304	3	US-09-949-002-3682	Sequence 3682, Ap
c 608	13.8	72.6	140844	3	US-09-949-016-14199	Sequence 14199, A	c 681	13.8	72.6	264304	3	US-09-949-002-3683	Sequence 3683, Ap

828	13.4	70.5	135667	3	US-09-949-016-15051	Sequence 15051, A	c 901	13.2	69.5	423	3	US-09-513-999C-28892	Sequence 28892, A
829	13.4	70.5	139282	3	US-09-949-016-15307	Sequence 15307, A	c 902	13.2	69.5	430	3	US-09-270-767-13455	Sequence 13455, A
830	13.4	70.5	139150	3	US-09-949-016-15308	Sequence 17398, A	c 903	13.2	69.5	443	3	US-09-513-999C-11320	Sequence 11320, A
831	13.4	70.5	139577	3	US-09-949-016-12879	Sequence 12879, A	c 904	13.2	69.5	443	3	US-09-615-192A-182	Sequence 182, App
832	13.4	70.5	140844	3	US-09-949-016-14199	Sequence 14199, A	c 905	13.2	69.5	443	3	US-09-169-789-182	Sequence 182, App
833	13.4	70.5	146428	3	US-09-949-016-12620	Sequence 12620, A	c 906	13.2	69.5	448	3	US-09-513-999C-784	Sequence 784, App
834	13.4	70.5	146438	3	US-09-949-016-12081	Sequence 12081, A	c 907	13.2	69.5	456	3	US-09-641-638-63	Sequence 63, Appl
835	13.4	70.5	147840	3	US-09-949-016-15236	Sequence 15236, A	c 908	13.2	69.5	456	3	US-10-170-097-63	Sequence 63, Appl
836	13.4	70.5	149971	3	US-09-949-016-13590	Sequence 13590, A	c 909	13.2	69.5	463	3	US-09-513-999C-4007	Sequence 4007, Ap
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838	13.4	70.5	157866	3	US-09-949-016-12982	Sequence 12982, A	c 911	13.2	69.5	477	3	US-09-513-999C-8300	Sequence 8300, Ap
839	13.4	70.5	157866	3	US-09-949-016-12983	Sequence 12983, A	c 912	13.2	69.5	478	3	US-09-3431-App	Sequence 3431, Ap
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841	13.4	70.5	165651	3	US-09-949-016-13032	Sequence 13032, A	c 914	13.2	69.5	483	3	US-09-489-039A-73	Sequence 73, Appl
842	13.4	70.5	174170	3	US-09-949-016-14810	Sequence 14810, A	c 915	13.2	69.5	493	3	US-09-270-767-14010	Sequence 14010, A
843	13.4	70.5	174170	3	US-09-949-016-14811	Sequence 14811, A	c 916	13.2	69.5	498	3	US-09-621-976-13861	Sequence 13861, A
844	13.4	70.5	174318	3	US-09-949-016-11880	Sequence 11880, A	c 917	13.2	69.5	499	3	US-09-270-767-11885	Sequence 11885, Ap
845	13.4	70.5	174318	3	US-09-949-016-14812	Sequence 14812, A	c 918	13.2	69.5	499	3	US-09-270-767-16467	Sequence 16467, A
846	13.4	70.5	174318	3	US-09-949-016-14813	Sequence 14813, A	c 919	13.2	69.5	522	3	US-09-621-976-2854	Sequence 2854, Ap
847	13.4	70.5	192700	3	US-09-949-016-11820	Sequence 11820, A	c 920	13.2	69.5	539	3	US-09-513-999C-94	Sequence 94, Appl
848	13.4	70.5	192704	3	US-09-949-016-17182	Sequence 17182, A	c 921	13.2	69.5	552	3	US-10-166-653-7	Sequence 7, Appl
849	13.4	70.5	213456	3	US-09-820-007-3	Sequence 3, Appl	c 922	13.2	69.5	558	3	US-09-280-116-185	Sequence 185, App
850	13.4	70.5	221958	3	US-09-949-016-12173	Sequence 12173, A	c 923	13.2	69.5	567	3	US-09-270-767-2860	Sequence 2860, Ap
851	13.4	70.5	221958	3	US-09-949-016-15498	Sequence 15498, A	c 924	13.2	69.5	567	3	US-09-270-767-18142	Sequence 18142, A
852	13.4	70.5	235452	3	US-09-949-016-13675	Sequence 13675, A	c 925	13.2	69.5	588	3	US-09-270-767-15643	Sequence 15643, A
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875	13.2	69.5	207	6	PCT-US95-04971-16	Sequence 16, Appl	c 948	13.2	69.5	601	3	US-09-949-016-53858	Sequence 53858, A
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877	13.2	69.5	222	3	US-08-857-534-15	Sequence 15, Appl	c 950	13.2	69.5	601	3	US-09-949-016-59514	Sequence 59514, A
878	13.2	69.5	222	3	US-09-613-298-15	Sequence 15, Appl	c 951	13.2	69.5	601	3	US-09-949-016-60436	Sequence 60436, A
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c 987 13.2 69.5 601 3 US-09-949-016-86928 Sequence 86928, A
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ALIGNMENTS

RESULT 1
US-10-085-612A-4
; Sequence 4, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR FILING DATE: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612A-4

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Best Local Similarity 94.7%; Pred. No. 52;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 2
US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
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US-09-949-016-11863

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Best Local Similarity 94.7%; Pred. No. 66;
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RESULT 3
US-09-949-016-12962
; Sequence 12962, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 12962
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; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12962

Query Match 91.6%; Score 17.4; DB 3; Length 35804;
Best Local Similarity 94.7%; Pred. No. 66;
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RESULT 4
US-09-949-016-14433
; Sequence 14433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
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; LENGTH: 103934
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(103934)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14433

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Best Local Similarity 94.7%; Pred. No. 71;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 5
US-09-949-016-187895
; Sequence 187895, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 187895
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-187895

Query Match 84.2%; Score 16; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 6
US-09-949-016-17117
; Sequence 17117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17117
; LENGTH: 43267
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(43267)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17117

Query Match 84.2%; Score 16; DB 3; Length 43267;
Best Local Similarity 100.0%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTG 16
|||||
Db 20824 GGGGTCGTCTGGCTG 20839

RESULT 7
US-09-513-999C-3273/c
; Sequence 3273, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3273
; LENGTH: 285
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 40..285
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 140
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 242
; OTHER INFORMATION: k=g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 255
; OTHER INFORMATION: k=g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 256
; OTHER INFORMATION: k=g or t
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 34
; OTHER INFORMATION: Xaa-Ser or Thr
; FEATURE:
; NAME/KEY: UNSURE

Query Match 83.2%; Score 15.8; DB 3; Length 601;
Best Local Similarity 89.5%; Pred. No. 2.8e+02;
Matches 17; Conservative 0; Mismatches 2; Indels

```

; GENERAL INFORMATION:
; APPLICANT: Salceda, Susan
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Harve
; TITLE OF INVENTION: A No. 6730477el Method of Diagnosing, Monitoring, Staging,
; TITLE OF INVENTION: Imaging and Treating Breast Cancer
; FILE REFERENCE: DEX-0085
; CURRENT APPLICATION NUMBER: US/09/664,249B
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US99/16811
; PRIOR FILING DATE: 1999-07-22
; PRIOR APPLICATION NUMBER: 60/095,232
; PRIOR FILING DATE: 1998-08-04
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1

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```
; SEQ ID NO 2
; LENGTH: 1066
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (729)..(813)
; OTHER INFORMATION: a, c, g or t
US-09-664-249B-2

Query Match      83.2%; Score 15.8; DB 3; Length 1066;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
||||| ||||| ||||| |||||
Db 530 GGGGTCTTCTTGGCTCAGC 512

RESULT 12
US-09-762-027-2/c
; Sequence 2, Application US/09762027
; Patent No. 6737040
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Herve
; APPLICANT: DIADEXUS LLC
; TITLE OF INVENTION: A NOVEL METHOD OF DIAGNOSING, MONITORING, STAGING,
; FILE REFERENCE: IMAGING AND TREATING BREAST CANCER
; CURRENT APPLICATION NUMBER: US/09/762,027
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/095,232
; PRIOR FILING DATE: 1998-08-04
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1066
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (729)..(813)
US-09-762-027-2

Query Match      83.2%; Score 15.8; DB 3; Length 1066;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
||||| ||||| ||||| |||||
Db 530 GGGGTCTTCTTGGCTCAGC 512

RESULT 13
US-09-620-312D-142/c
; Sequence 142, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yuning
```

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; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_PL_genes Version 1.0
; SEQ ID NO 142
; LENGTH: 1510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(884)
US-09-620-312D-142

Query Match      83.2%; Score 15.8; DB 3; Length 1510;
Best Local Similarity 89.5%; Pred. No. 3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
||||| ||||| ||||| |||||
Db 104 GGGGTCTGTCTGGCTCAGC 86

RESULT 14
US-07-945-283-1
; Sequence 1, Application US/07945283
; Patent No. 5352596
; GENERAL INFORMATION:
; APPLICANT: Cheung, Andrew K.
; APPLICANT: Wesley, Ronald D.
; TITLE OF INVENTION: Pseudorabies Virus Deletion Mutants
; TITLE OF INVENTION: Involving The EP0 and LIT Genes
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 No. 5352596th University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: USA
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/945,283
; FILING DATE: 19920911
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Ribando, Curtis P
; REGISTRATION NUMBER: 27976
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 309-685-4011 ext.513
; TELEFAX: 309-685-4128
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8438 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
```

```
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Pseudorabies virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 622..6495
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1099, "g")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1267, "c")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1381, "c")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1566, "c")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(7010, "g")
; US-07-945-283-1
;
Query Match      83.2%; Score 15.8; DB 2; Length 8438;
Best Local Similarity 89.5%; Pred. No. 3.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 6815 GGGGTCTTTCTGCGCTGAGC 6833

RESULT 15
US-09-949-002-574
; Sequence 574, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 574
; LENGTH: 209631
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(209631)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-002-574

Query Match      83.2%; Score 15.8; DB 3; Length 209631;
Best Local Similarity 89.5%; Pred. No. 4.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 129445 GGGGTCTGTCTGGCTGAGC 129463

RESULT 16
US-09-949-002-802
; Sequence 802, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 574
; LENGTH: 209631
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(209631)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-002-574

Query Match      83.2%; Score 15.8; DB 3; Length 209632;
Best Local Similarity 89.5%; Pred. No. 4.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 129445 GGGGTCTGTCTGGCTGAGC 129463

RESULT 17
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      83.2%; Score 15.8; DB 3; Length 4403765;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 1885995 GGTGTCTGTTTGGCTGAGC 1886013

RESULT 18
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
```

; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37RV
US-09-103-840A-1

Query Match 83.2%; Score 15.8; DB 3; Length 4411529;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGACC 19
||| ||||| ||||| |||||
Db 1895110 GGTGCTCTGTTTGGCTGAGC 1895128

RESULT 19

US-09-949-016-204195/c
; Sequence 204195, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 204195
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-204195

Query Match 81.1%; Score 15.4; DB 3; Length 601;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGA 17
||| ||||| ||||| |||||
Db 516 GGGGGCTGTCTGGCTGA 500

RESULT 20

US-09-949-016-204196/c
; Sequence 204196, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 204196
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-204196

; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 204196
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; ORGANISM: Human
US-09-949-016-204196

Query Match 81.1%; Score 15.4; DB 3; Length 601;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGA 17
||| ||||| ||||| |||||
Db 549 GGGGGCTGTCTGGCTGA 533

RESULT 21

US-09-949-016-17508
; Sequence 17508, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17508
; LENGTH: 28374
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17508

Query Match 81.1%; Score 15.4; DB 3; Length 28374;
Best Local Similarity 94.1%; Pred. No. 5.6e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGA 17
||| ||||| ||||| |||||
Db 12368 GGGGGCTGTCTGGCTGA 12384

RESULT 22

US-09-949-016-16716/c
; Sequence 16716, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16716
; LENGTH: 54986

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; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(54986)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16716

Query Match      81.1%; Score 15.4; DB 3; Length 54986;
Best Local Similarity 94.1%; Pred. No. 5.8e+02;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGA 17
   |||||
Db 10677 GGGGTCTGTCTGGCTGA 10661

RESULT 23
US-09-949-016-17597
; Sequence 17597, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17597
; LENGTH: 75674
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(75674)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17597

Query Match      81.1%; Score 15.4; DB 3; Length 75674;
Best Local Similarity 94.1%; Pred. No. 6e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGAG 18
   |||||
Db 65024 GGGTCTGTCTGTCTGAG 65040

RESULT 24
US-09-949-016-16420/c
; Sequence 16420, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16420
; LENGTH: 234884
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(234884)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16420

Query Match      81.1%; Score 15.4; DB 3; Length 234884;
Best Local Similarity 94.1%; Pred. No. 6.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGA 17
   |||||
Db 85804 GGGGTCTGTCTGGCTGA 85788

RESULT 25
US-09-949-016-56117
; Sequence 56117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56117
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-56117

Query Match      78.9%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCT 15
   |||||
Db 330 GGGGTCTGTCTGGCT 344

RESULT 26
US-09-949-016-56118
; Sequence 56118, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56118
; LENGTH: 344
; TYPE: DNA
; ORGANISM: Human
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-56118
```

; SEQ ID NO 56118
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56118

Query Match 78.9%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTGGCT 15
Db 94 GGGGCTGCTGGCT 108

RESULT 27

US-09-949-016-56119
; Sequence 56119, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56119
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56119

Query Match 78.9%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTGGCT 15
Db 46 GGGGCTGCTGGCT 60

RESULT 28

US-09-949-016-196036
; Sequence 196036, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 196036
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-196036

Query Match 78.9%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCGTCTGGCTGA 17
Db 232 GGTCGTCTGGCTGA 246

RESULT 29

US-09-949-016-196037
; Sequence 196037, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 196037
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-196037

Query Match 78.9%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCGTCTGGCTGA 17
Db 27 GGTCGTCTGGCTGA 41

RESULT 30

US-09-023-655-1343
; Sequence 1343, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:

; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:

```
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1343:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1325 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: G3444
US-09-023-655-1343

Query Match 78.9%; Score 15; DB 3; Length 1325;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 903 GTCTGCTGGCTGAG 917

RESULT 31
US-09-949-002-18
; Sequence 18, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-18

Query Match 78.9%; Score 15; DB 3; Length 1386;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 964 GTCTGCTGGCTGAG 978

RESULT 32
US-09-949-002-255
; Sequence 255, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-255

Query Match 78.9%; Score 15; DB 3; Length 1386;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 964 GTCTGCTGGCTGAG 978

RESULT 33
US-09-949-002-590
; Sequence 590, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 590
; LENGTH: 6006
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-590

Query Match 78.9%; Score 15; DB 3; Length 6006;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 3584 GTCTGCTGGCTGAG 3598

RESULT 34
US-09-949-002-827
; Sequence 827, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 827
; LENGTH: 6007
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-827

Query Match 78.9%; Score 15; DB 3; Length 6007;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
```

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18

|||||

Db 3584 GTCTGCTGGCTGAG 3598

RESULT 35

US-09-949-016-16898
; Sequence 16898, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16898
; LENGTH: 6682
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16898

Query Match 78.9%; Score 15; DB 3; Length 6682;

Best Local Similarity 100.0%; Pred. No. 7.9e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18

|||||

Db 245 GTCTGCTGGCTGAG 259

RESULT 36

US-09-949-016-17298
; Sequence 17298, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17298
; LENGTH: 41594
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(41594)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17298

Query Match 78.9%; Score 15; DB 3; Length 41594;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCGTCTGGCTGA 17

|||||

Db 30410 GGTCGTCTGGCTGA 30424

RESULT 37

US-09-536-059-1
; Sequence 1, Application US/09536059
; Patent No. 6544737
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Cohen-Akenine, Annick
; TITLE OF INVENTION: GENOMIC SEQUENCE OF THE purH GENE AND purH-RELATED BIALLELIC
; FILE REFERENCE: GENSET.058AUS
; CURRENT APPLICATION NUMBER: US/09/536,059
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/125,961
; PRIOR FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent.pm
; SEQ ID NO 1
; LENGTH: 41684
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..2000
; OTHER INFORMATION: 5'regulatory region
; NAME/KEY: exon
; LOCATION: 2001..2096
; OTHER INFORMATION: exon 1
; NAME/KEY: exon
; LOCATION: 2433..2559
; OTHER INFORMATION: exon 2
; NAME/KEY: exon
; LOCATION: 8092..8168
; OTHER INFORMATION: exon 3
; NAME/KEY: exon
; LOCATION: 9600..9666
; OTHER INFORMATION: exon 4
; NAME/KEY: exon
; LOCATION: 15178..15266
; OTHER INFORMATION: exon 5
; NAME/KEY: exon
; LOCATION: 15924..16075
; OTHER INFORMATION: exon 6
; NAME/KEY: exon
; LOCATION: 16759..16915
; OTHER INFORMATION: exon 7
; NAME/KEY: exon
; LOCATION: 22309..22434
; OTHER INFORMATION: exon 8
; NAME/KEY: exon
; LOCATION: 23277..23384
; OTHER INFORMATION: exon 9
; NAME/KEY: exon
; LOCATION: 24841..24926
; OTHER INFORMATION: exon 10
; NAME/KEY: exon
; LOCATION: 25957..26046
; OTHER INFORMATION: exon 11
; NAME/KEY: exon
; LOCATION: 28700..28828
; OTHER INFORMATION: exon 12
; NAME/KEY: exon
; LOCATION: 34699..34791
; OTHER INFORMATION: exon 13
; NAME/KEY: exon
; LOCATION: 36579..36861

; OTHER INFORMATION: exon 14
 ; NAME/KEY: exon
 ; LOCATION: 39014...39169
 ; OTHER INFORMATION: exon 15
 ; NAME/KEY: exon
 ; LOCATION: 39456...39684
 ; OTHER INFORMATION: exon 16
 ; NAME/KEY: misc feature
 ; LOCATION: 39685...41684
 ; OTHER INFORMATION: 3'regulatory region
 ; NAME/KEY: allele
 ; LOCATION: 6491
 ; OTHER INFORMATION: 99-32284-107 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 15234
 ; OTHER INFORMATION: 99-5602-372 : polymorphic base G or C
 ; NAME/KEY: allele
 ; LOCATION: 15868
 ; OTHER INFORMATION: 5-290-32 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 16729
 ; OTHER INFORMATION: 99-22573-321 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 18311
 ; OTHER INFORMATION: 99-22586-300 : polymorphic base G or C
 ; NAME/KEY: allele
 ; LOCATION: 18572
 ; OTHER INFORMATION: 99-22586-39 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 22906
 ; OTHER INFORMATION: 99-5596-197 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 23175
 ; OTHER INFORMATION: 5-293-76 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 23253
 ; OTHER INFORMATION: 5-293-155 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 26106
 ; OTHER INFORMATION: 5-294-285 : polymorphic base G or C
 ; NAME/KEY: allele
 ; LOCATION: 30464
 ; OTHER INFORMATION: 99-23454-317 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 30689
 ; OTHER INFORMATION: 99-23454-105 : polymorphic base G or C
 ; NAME/KEY: allele
 ; LOCATION: 31250
 ; OTHER INFORMATION: 99-15528-333 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 35148
 ; OTHER INFORMATION: 99-15798-86 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 36801
 ; OTHER INFORMATION: 5-297-209 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 37286
 ; OTHER INFORMATION: 99-32281-276 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 37536
 ; OTHER INFORMATION: 99-32281-26 : polymorphic base C or T
 ; NAME/KEY: allele
 ; LOCATION: 39321
 ; OTHER INFORMATION: 5-298-376 : polymorphic base A or G
 ; NAME/KEY: allele
 ; LOCATION: 39689
 ; OTHER INFORMATION: 99-23460-199 : polymorphic base G or T
 ; NAME/KEY: primer_bind
 ; LOCATION: 6137..6157
 ; OTHER INFORMATION: 99-32284.rp
 ; NAME/KEY: primer_bind
 ; LOCATION: 6577..6597
 ; OTHER INFORMATION: 99-32284.pu complement

; NAME/KEY: primer_bind
 ; LOCATION: 14864..14882
 ; OTHER INFORMATION: 99-5602.pu
 ; NAME/KEY: primer_bind
 ; LOCATION: 15292..15312
 ; OTHER INFORMATION: 99-5602.rp complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 15837..15855
 ; OTHER INFORMATION: 5-290.pu
 ; NAME/KEY: primer_bind
 ; LOCATION: 16249..16266
 ; OTHER INFORMATION: 5-290.rp complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 16599..16617
 ; OTHER INFORMATION: 99-22573.rp
 ; NAME/KEY: primer_bind
 ; LOCATION: 17030..17049
 ; OTHER INFORMATION: 99-22573.pu complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 18131..18150
 ; OTHER INFORMATION: 99-22586.rp
 ; NAME/KEY: primer_bind
 ; LOCATION: 18592..18610
 ; OTHER INFORMATION: 99-22586.pu complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 22710..22727
 ; OTHER INFORMATION: 99-5596.pu
 ; NAME/KEY: primer_bind
 ; LOCATION: 23100..23118
 ; OTHER INFORMATION: 5-293.pu
 ; NAME/KEY: primer_bind
 ; LOCATION: 23130..23149
 ; OTHER INFORMATION: 99-5596.rp complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 23512..23530
 ; OTHER INFORMATION: 5-293.rp complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 25822..25840
 ; OTHER INFORMATION: 5-294.pu
 ; NAME/KEY: primer_bind
 ; LOCATION: 26222..26241
 ; OTHER INFORMATION: 5-294.rp complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 30332..30352
 ; OTHER INFORMATION: 99-23454.rp
 ; NAME/KEY: primer_bind
 ; LOCATION: 30754..30773
 ; OTHER INFORMATION: 99-23454.pu complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 30918..30935
 ; OTHER INFORMATION: 99-15528.pu
 ; NAME/KEY: primer_bind
 ; LOCATION: 31390..31408
 ; OTHER INFORMATION: 99-15528.rp complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 34780..34799
 ; OTHER INFORMATION: 99-15798.rp
 ; NAME/KEY: primer_bind
 ; LOCATION: 35215..35233
 ; OTHER INFORMATION: 99-15798.pu complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 36593..36610

Query Match 78.9%; Score 15; DB 3; Length 41684;
 Best Local Similarity 100.0%; Pred.No. 8.8e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGCTGCTGCTGCTGA 17
 |||||
 Db 30395 GGCTGCTGCTGCTGA 30409

RESULT 38

US-09-949-016-13375
; Sequence 13375, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13375
; LENGTH: 70262
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13375

Query Match 78.9%; Score 15; DB 3; Length 70262;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCT 15
|||||

Db 29382 GGGGTCGTCTGGCT 29396

RESULT 39
US-09-949-016-12748
; Sequence 12748, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12748
; LENGTH: 70263
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12748

Query Match 78.9%; Score 15; DB 3; Length 70263;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCT 15
|||||

Db 29392 GGGGTCGTCTGGCT 29406

RESULT 40
US-09-513-999C-1652/c
; Sequence 1652, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.

; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 1652
; LENGTH: 219
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 45..218
US-09-513-999C-1652

Query Match 77.9%; Score 14.8; DB 3; Length 219;
Best Local Similarity 88.9%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
|||||

Db 134 GGGGTCGTCTGGATCAG 117

RESULT 41
US-09-621-976-9198
; Sequence 9198, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 9198
; LENGTH: 383
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-9198

Query Match 77.9%; Score 14.8; DB 3; Length 383;
Best Local Similarity 88.9%; Pred. No. 8.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCGTCTGGCTGAGC 19
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Db 161 GGGTCGTCTGGCTGAGC 178

RESULT 42
US-09-949-016-95996
; Sequence 95996, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95996
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-95996

Query Match 77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | | | |
Db 426 GAGGTCCTTTGGCTGAG 443

RESULT 43
US-09-949-016-166848/c
; Sequence 166848, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 166848
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-166848

Query Match 77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | | | |
Db 511 GGGGTCGTCTGAGTGA 494

RESULT 44
US-09-949-016-193109/c
; Sequence 193109, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193109

; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-193109

Query Match 77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | | | |
Db 269 GGGGTCGTCTGGCTGAG 252

RESULT 45
US-09-949-016-193202/c
; Sequence 193202, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193202
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-193202

Query Match 77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | | | |
Db 269 GGGGTCGTCTGGCTGAG 252

RESULT 46
US-09-949-016-193295/c
; Sequence 193295, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193295
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-193295

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Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
    ||||| ||||| |||||
Db 269 GGGGTCGTCTGGCTGAG 252

RESULT 47
US-09-949-016-193388/c
; Sequence 193388, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193388
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-193388

Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
    ||||| ||||| |||||
Db 269 GGGGTCGTCTGGCTGAG 252

RESULT 48
US-09-949-002-1071
; Sequence 1071, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1071
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-1071

Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
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Db 331 GAGGTTGTCTGGCTGAG 348
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RESULT 49
US-09-949-002-1072
; Sequence 1072, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1072
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-1072
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Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
    ||||| ||||| |||||
Db 271 GAGGTTGTCTGGCTGAG 288
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RESULT 50
US-09-949-002-2054/c
; Sequence 2054, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2054
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-2054
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Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 180 GGGCCTGTCTGGCTGTGC 163
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Job time : 104.987 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 363.495 Seconds
(without alignments)
432.243 Million cell updates/sec

Title: US-09-869-169C-12

Perfect score: 19

Sequence: 1 999gtctgtctggctgagc 19

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications_NA_Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	17.4	91.6	2214	4	US-09-925-065A-675137
3	17.4	91.6	177531	8	US-10-484-577-660
4	16.4	86.3	268	8	US-10-425-115-134491
5	16.4	86.3	374	8	US-10-425-115-79824
6	16.4	86.3	422	3	US-09-867-701-8175
7	16.4	86.3	1680	5	US-10-128-714-7457
8	16.4	86.3	1880	5	US-10-128-714-6457
9	16.4	86.3	3763	9	US-10-450-763-5676
10	16.4	86.3	3880	5	US-10-128-714-5457
11	16.4	86.3	11102	5	US-10-205-823-334
12	16.4	86.3	11102	8	US-10-788-792-18
13	16.4	86.3	11102	10	US-11-051-454-334
14	16.4	86.3	11283	6	US-10-341-434-130
15	16.4	86.3	28562	5	US-10-087-192-211
16	16.4	86.3	87001	8	US-10-741-600-17792
17	16	84.2	644	4	US-09-925-065A-740811
18	16	84.2	2168	3	US-09-835-976B-83
19	16	84.2	3170	7	US-10-322-696-41
20	16	84.2	5239	3	US-09-835-976B-1
21	16	84.2	5261	7	US-10-276-774-971
22	16	84.2	7275	3	US-09-764-872-864
23	16	84.2	32351	7	US-10-322-696-40

25	10	US-11-036-317-195529	Sequence 195529,
25	10	US-11-036-317-314563	Sequence 314563,
446	7	US-10-437-963-26474	Sequence 26474, A
483	4	US-09-925-065A-529831	Sequence 529831,
562	4	US-09-925-065A-25140	Sequence 25140, A
600	9	US-10-972-079-17638	Sequence 17638, A
600	9	US-10-972-079-17639	Sequence 17639, A
600	9	US-10-972-079-20707	Sequence 20707, A
684	5	US-10-027-632-22845	Sequence 22845, A
684	5	US-10-027-632-22845	Sequence 22845, A
684	6	US-10-027-632-22845	Sequence 22845, A
684	6	US-10-027-632-22845	Sequence 22845, A
687	7	US-10-302-172-408	Sequence 408, App
719	5	US-10-027-632-283313	Sequence 283313,
719	6	US-10-027-632-283313	Sequence 283313,
740	5	US-10-027-632-149183	Sequence 149183,
740	6	US-10-027-632-149183	Sequence 149183,
801	3	US-09-815-242-7949	Sequence 7949, Ap
801	7	US-10-282-122A-30532	Sequence 30532, A
829	6	US-10-369-493-34166	Sequence 34166, A
1066	7	US-10-798-084-2	Sequence 2, Appli
1191	9	US-10-936-626-72	Sequence 72, Appl
1191	9	US-10-938-061-72	Sequence 72, Appl
1510	5	US-10-037-270-142	Sequence 142, App
1510	6	US-10-117-722-142	Sequence 142, App
1510	9	US-10-122-851-142	Sequence 142, App
1577	4	US-09-925-065A-546490	Sequence 546490,
2074	4	US-09-925-065A-30595	Sequence 30595, A
2074	4	US-09-925-065A-30595	Sequence 30595, A
2141	6	US-10-108-260A-1448	Sequence 1448, Ap
2468	4	US-09-925-065A-676519	Sequence 676519,
2468	4	US-09-925-065A-676520	Sequence 676520,
35623	7	US-10-322-281-356	Sequence 356, App
76670	5	US-10-087-193-2050	Sequence 2050, Ap
83946	7	US-10-450-826-8	Sequence 8, Appli
83946	8	US-10-723-860-795	Sequence 795, App
96960	8	US-10-484-577-662	Sequence 662, App
161280	5	US-10-144-649A-746	Sequence 746, App
347001	7	US-10-319-908-16	Sequence 16, Appl
382256	9	US-10-820-226-1	Sequence 1, Appli
382259	10	US-11-029-984-1	Sequence 1, Appli
392112	8	US-10-812-232-3	Sequence 3, Appli
418	4	US-09-925-065A-259668	Sequence 259668,
418	4	US-09-925-065A-259669	Sequence 259669,
528	4	US-09-925-065A-139789	Sequence 139789,
528	4	US-09-925-065A-139790	Sequence 139790,
542	5	US-10-027-632-54049	Sequence 54049, A
542	5	US-10-027-632-298693	Sequence 298693,
564	5	US-10-027-632-321954	Sequence 321954,
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564	6	US-10-027-632-321954	Sequence 321954,
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610	4	US-09-925-065A-649747	Sequence 649747,
610	4	US-09-925-065A-649748	Sequence 649748,
620	4	US-09-925-065A-780354	Sequence 780354,
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633	4	US-09-925-065A-367648	Sequence 367648,
713	5	US-10-027-632-19208	Sequence 19208, A
713	5	US-10-027-632-19209	Sequence 19209, A
713	5	US-10-027-632-19210	Sequence 19210, A
713	6	US-10-027-632-19208	Sequence 19208, A
713	6	US-10-027-632-19209	Sequence 19209, A
713	6	US-10-027-632-19210	Sequence 19210, A
1127	4	US-09-925-065A-38776	Sequence 38776, A
1127	4	US-09-925-065A-38777	Sequence 38777, A
1176	7	US-10-425-114-32826	Sequence 32826, A
1176	8	US-10-425-115-137802	Sequence 137802,
1176	4	US-09-925-065A-67975	Sequence 67975, A

97	15.4	81.1	1792	4	US-09-925-065A-717091	Sequence 717091, A	c 170	15	78.9	1754382	9	US-10-501-282-6651	Sequence 6651, Ap
c 98	15.4	81.1	14241	6	US-10-017-161-1989	Sequence 1989, Ap	c 171	14.8	77.9	25	7	US-10-719-956-132460	Sequence 132460, Ap
c 99	15.4	81.1	14425	6	US-10-232-798-1637	Sequence 1637, Ap	c 172	14.8	77.9	25	10	US-11-036-317-267199	Sequence 267199, Ap
c 100	15.4	81.1	16270	6	US-10-017-161-2251	Sequence 2251, Ap	c 173	14.8	77.9	36	8	US-10-706-691-30	Sequence 30, Appl
c 101	15.4	81.1	16270	6	US-10-232-798-1897	Sequence 1897, Ap	c 174	14.8	77.9	36	8	US-10-706-691-31	Sequence 31, Appl
c 102	15.4	81.1	53954	5	US-10-087-192-262	Sequence 262, App	c 175	14.8	77.9	201	7	US-10-741-601-5317	Sequence 5317, Ap
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c 104	15	78.9	25	8	US-10-719-900-122815	Sequence 122815, A	c 177	14.8	77.9	201	7	US-10-741-601-5327	Sequence 5327, Ap
c 105	15	78.9	360	9	US-10-501-282-1203	Sequence 1203, Ap	c 178	14.8	77.9	201	7	US-10-741-601-5332	Sequence 5332, Ap
c 106	15	78.9	457	3	US-09-796-692-9400	Sequence 9400, Ap	c 179	14.8	77.9	201	7	US-10-741-601-20274	Sequence 20274, A
c 107	15	78.9	457	3	US-10-040-862-9400	Sequence 9400, Ap	c 180	14.8	77.9	201	7	US-10-741-601-20289	Sequence 20289, A
c 108	15	78.9	457	6	US-10-057-475B-9400	Sequence 9400, Ap	c 181	14.8	77.9	201	7	US-10-741-601-20409	Sequence 20409, A
c 109	15	78.9	457	6	US-10-154-884B-9400	Sequence 9400, Ap	c 182	14.8	77.9	201	7	US-10-741-601-20411	Sequence 20411, A
c 110	15	78.9	457	8	US-10-764-324-9400	Sequence 9400, Ap	c 183	14.8	77.9	201	8	US-10-741-600-16224	Sequence 16224, A
c 111	15	78.9	483	9	US-10-501-282-1201	Sequence 1201, Ap	c 184	14.8	77.9	201	8	US-10-741-600-16231	Sequence 16231, A
c 112	15	78.9	588	5	US-10-027-632-95731	Sequence 95731, A	c 185	14.8	77.9	201	8	US-10-741-600-16234	Sequence 16234, A
c 113	15	78.9	588	5	US-10-027-632-95731	Sequence 95731, A	c 186	14.8	77.9	201	8	US-10-741-600-16239	Sequence 16239, A
c 114	15	78.9	588	6	US-10-027-632-95731	Sequence 95731, A	c 187	14.8	77.9	201	8	US-10-741-600-33951	Sequence 33951, A
c 115	15	78.9	588	6	US-10-027-632-95731	Sequence 95731, A	c 188	14.8	77.9	201	8	US-10-741-600-55757	Sequence 55757, A
c 116	15	78.9	588	6	US-10-027-632-95731	Sequence 95731, A	c 189	14.8	77.9	201	8	US-10-741-600-55772	Sequence 55772, A
c 117	15	78.9	595	4	US-09-925-065A-874512	Sequence 874512, A	c 190	14.8	77.9	201	8	US-10-741-600-55892	Sequence 55892, A
c 118	15	78.9	600	9	US-09-925-065A-514816	Sequence 514816, A	c 191	14.8	77.9	201	8	US-10-741-600-55894	Sequence 55894, A
c 119	15	78.9	604	4	US-09-925-065A-190851	Sequence 190851, A	c 192	14.8	77.9	257	7	US-10-702-075-3596	Sequence 3596, App
c 120	15	78.9	631	4	US-09-925-065A-120779	Sequence 120779, A	c 193	14.8	77.9	263	8	US-09-732-627A-3181	Sequence 3181, Ap
c 121	15	78.9	639	9	US-10-928-465-16	Sequence 16, Appl	c 194	14.8	77.9	314	3	US-09-960-352-6797	Sequence 6797, Ap
c 122	15	78.9	717	5	US-10-027-632-20520	Sequence 20520, A	c 195	14.8	77.9	341	3	US-09-960-352-6797	Sequence 6797, Ap
c 123	15	78.9	717	5	US-10-027-632-20521	Sequence 20521, A	c 196	14.8	77.9	344	3	US-09-960-352-6797	Sequence 6797, Ap
c 124	15	78.9	717	5	US-10-027-632-20522	Sequence 20522, A	c 197	14.8	77.9	424	3	US-09-960-352-6747	Sequence 6747, Ap
c 125	15	78.9	717	6	US-10-027-632-20520	Sequence 20520, A	c 198	14.8	77.9	442	3	US-09-864-761-6038	Sequence 6038, Ap
c 126	15	78.9	717	6	US-10-027-632-20521	Sequence 20521, A	c 199	14.8	77.9	442	3	US-09-918-995-2761	Sequence 2761, Ap
c 127	15	78.9	717	6	US-10-027-632-20521	Sequence 20521, A	c 200	14.8	77.9	443	4	US-09-925-065A-543675	Sequence 543675, A
c 128	15	78.9	832	6	US-10-027-632-20522	Sequence 20522, A	c 201	14.8	77.9	460	4	US-09-925-065A-535584	Sequence 535584, A
c 129	15	78.9	832	6	US-10-027-632-155426	Sequence 155426, A	c 202	14.8	77.9	465	3	US-09-918-995-32786	Sequence 32786, A
c 130	15	78.9	834	6	US-10-027-632-155426	Sequence 155426, A	c 203	14.8	77.9	526	4	US-09-925-065A-540914	Sequence 540914, A
c 131	15	78.9	834	6	US-10-027-632-150849	Sequence 150849, A	c 204	14.8	77.9	527	4	US-09-925-065A-644980	Sequence 644980, A
c 132	15	78.9	964	5	US-10-027-632-154318	Sequence 154318, A	c 205	14.8	77.9	531	9	US-10-450-763-19990	Sequence 19990, A
c 133	15	78.9	964	5	US-10-027-632-154319	Sequence 154319, A	c 206	14.8	77.9	534	4	US-09-925-065A-645366	Sequence 645366, A
c 134	15	78.9	964	6	US-10-027-632-154318	Sequence 154318, A	c 207	14.8	77.9	535	4	US-09-925-065A-644076	Sequence 644076, A
c 135	15	78.9	964	6	US-10-027-632-154319	Sequence 154319, A	c 208	14.8	77.9	535	4	US-10-029-386-3231	Sequence 3231, Ap
c 136	15	78.9	1065	9	US-10-501-282-1209	Sequence 1209, Ap	c 209	14.8	77.9	552	6	US-09-925-065A-432720	Sequence 432720, A
c 137	15	78.9	1065	9	US-10-501-282-1211	Sequence 1211, Ap	c 210	14.8	77.9	565	4	US-09-925-065A-596064	Sequence 596064, A
c 138	15	78.9	1325	5	US-10-272-411-5	Sequence 5, Appl	c 211	14.8	77.9	565	4	US-10-027-632-287822	Sequence 287822, A
c 139	15	78.9	1325	5	US-10-218-547-1	Sequence 1, Appl	c 212	14.8	77.9	568	5	US-10-027-632-287822	Sequence 287822, A
c 140	15	78.9	1325	5	US-10-272-328A-5	Sequence 5, Appl	c 213	14.8	77.9	568	6	US-10-027-632-287822	Sequence 287822, A
c 141	15	78.9	1325	6	US-10-310-793-7	Sequence 7, Appl	c 214	14.8	77.9	571	4	US-09-925-065A-538384	Sequence 538384, A
c 142	15	78.9	1325	7	US-10-202-062-1	Sequence 1, Appl	c 215	14.8	77.9	580	4	US-09-925-065A-798016	Sequence 798016, A
c 143	15	78.9	1325	7	US-10-641-643-1343	Sequence 1343, Ap	c 216	14.8	77.9	589	4	US-09-925-065A-799140	Sequence 799140, A
c 144	15	78.9	1325	10	US-11-028-780-1	Sequence 1, Appl	c 217	14.8	77.9	596	5	US-10-027-632-291735	Sequence 291735, A
c 145	15	78.9	1386	6	US-10-101-510-145	Sequence 145, App	c 218	14.8	77.9	596	5	US-10-027-632-291735	Sequence 291735, A
c 146	15	78.9	1386	6	US-10-159-563-362	Sequence 362, App	c 219	14.8	77.9	596	5	US-10-027-632-291735	Sequence 291735, A
c 147	15	78.9	1386	7	US-10-283-975A-135	Sequence 135, App	c 220	14.8	77.9	596	6	US-10-027-632-291735	Sequence 291735, A
c 148	15	78.9	1386	8	US-10-278-698-13	Sequence 13, Appl	c 221	14.8	77.9	596	6	US-10-027-632-291737	Sequence 291737, A
c 149	15	78.9	1386	8	US-10-278-698-14	Sequence 14, Appl	c 222	14.8	77.9	599	6	US-10-972-079-25203	Sequence 25203, A
c 150	15	78.9	1386	8	US-10-278-698-527	Sequence 527, App	c 223	14.8	77.9	599	9	US-10-972-079-74434	Sequence 74434, A
c 151	15	78.9	1386	8	US-10-278-698-528	Sequence 528, App	c 224	14.8	77.9	600	9	US-10-956-157-10295	Sequence 10295, A
c 152	15	78.9	1386	8	US-10-928-465-17	Sequence 17, Appl	c 225	14.8	77.9	600	9	US-10-972-079-3284	Sequence 3284, Ap
c 153	15	78.9	1416	8	US-10-741-600-820	Sequence 820, App	c 226	14.8	77.9	600	9	US-10-972-079-3285	Sequence 3285, Ap
c 154	15	78.9	1502	8	US-10-741-600-819	Sequence 819, App	c 227	14.8	77.9	600	9	US-10-972-079-3286	Sequence 3286, Ap
c 155	15	78.9	1861	8	US-10-492-113-8	Sequence 8, Appl	c 228	14.8	77.9	600	9	US-10-972-079-74436	Sequence 74436, A
c 156	15	78.9	1933	4	US-09-925-065A-718531	Sequence 718531, A	c 229	14.8	77.9	600	9	US-10-972-079-74437	Sequence 74437, A
c 157	15	78.9	1933	4	US-09-925-065A-718532	Sequence 718532, A	c 230	14.8	77.9	600	9	US-10-972-079-74437	Sequence 74437, A
c 158	15	78.9	1933	4	US-09-925-065A-718533	Sequence 718533, A	c 231	14.8	77.9	600	9	US-09-925-065A-597903	Sequence 597903, A
c 159	15	78.9	2025	9	US-10-450-763-16927	Sequence 16927, A	c 232	14.8	77.9	616	4	US-09-925-065A-792819	Sequence 792819, A
c 160	15	78.9	2405	7	US-10-206-618-10	Sequence 10, Appl	c 233	14.8	77.9	616	4	US-09-925-065A-792820	Sequence 792820, A
c 161	15	78.9	2405	7	US-10-206-618-11	Sequence 11, Appl	c 234	14.8	77.9	621	4	US-09-925-065A-633643	Sequence 633643, A
c 162	15	78.9	5033	6	US-10-369-300-14	Sequence 14, Appl	c 235	14.8	77.9	621	4	US-09-925-065A-633644	Sequence 633644, A
c 163	15	78.9	12123	7	US-10-206-618-1	Sequence 1, Appl	c 236	14.8	77.9	631	4	US-09-925-065A-109462	Sequence 109462, A
c 164	15	78.9	14036	8	US-10-741-600-17806	Sequence 17806, A	c 237	14.8	77.9	638	4	US-09-925-065A-943835	Sequence 943835, A
c 165	15	78.9	14769	8	US-10-741-600-18012	Sequence 18012, A	c 238	14.8	77.9	648	4	US-09-925-065A-887567	Sequence 887567, A
c 166	15	78.9	22173	7	US-10-322-696-28	Sequence 28, Appl	c 239	14.8	77.9	655	8	US-10-425-115-141022	Sequence 141022, A
c 167	15	78.9	41299	8	US-10-741-600-17833	Sequence 17833, A	c 240	14.8	77.9	667	5	US-10-027-632-149278	Sequence 149278, A
c 168	15	78.9	41684	6	US-10-376-893-1	Sequence 1, Appl	c 241	14.8	77.9	667	5	US-10-027-632-149278	Sequence 149278, A
c 169	15	78.9	60153	5	US-10-222-334-7	Sequence 7, Appl	c 242	14.8	77.9	667	5	US-10-027-632-149278	Sequence 149278, A

C 243	14.8	77.9	684	5	US-10-027-632-106507	Sequence 106507,	C 316	14.8	77.9	1303	3	US-09-822-830A-621	Sequence 621, App
C 244	14.8	77.9	684	5	US-10-027-632-137672	Sequence 137672,	C 317	14.8	77.9	1337	5	US-10-027-632-97139	Sequence 97139, A
C 245	14.8	77.9	684	5	US-10-027-632-106507	Sequence 106507,	C 318	14.8	77.9	1937	5	US-10-027-632-97140	Sequence 97140, A
C 246	14.8	77.9	684	6	US-10-027-632-137672	Sequence 137672,	C 319	14.8	77.9	1937	6	US-10-027-632-97139	Sequence 97139, A
C 247	14.8	77.9	714	9	US-10-617-320-2050	Sequence 2050, Ap	C 320	14.8	77.9	1937	6	US-10-027-632-97140	Sequence 97140, A
C 248	14.8	77.9	718	5	US-10-027-632-150309	Sequence 150309,	C 321	14.8	77.9	1990	3	US-09-765-205-39	Sequence 39, Appl
C 249	14.8	77.9	718	5	US-10-027-632-150309	Sequence 150309,	C 322	14.8	77.9	1990	3	US-10-347-669-39	Sequence 39, Appl
C 250	14.8	77.9	719	5	US-10-027-632-25812	Sequence 25812, A	C 323	14.8	77.9	1995	4	US-09-925-065A-89611	Sequence 89611, A
C 251	14.8	77.9	719	6	US-10-027-632-25812	Sequence 25812, A	C 324	14.8	77.9	2024	8	US-10-706-691-40	Sequence 40, Appl
C 252	14.8	77.9	720	8	US-10-706-691-19	Sequence 19, Appl	C 325	14.8	77.9	2045	5	US-10-027-632-99699	Sequence 99699, A
C 253	14.8	77.9	724	5	US-10-027-632-22965	Sequence 22965, A	C 326	14.8	77.9	2045	6	US-10-027-632-99699	Sequence 99699, A
C 254	14.8	77.9	724	6	US-10-027-632-22965	Sequence 22965, A	C 327	14.8	77.9	2128	7	US-10-437-963-67968	Sequence 67968, A
C 255	14.8	77.9	725	5	US-10-027-632-148281	Sequence 148281, A	C 328	14.8	77.9	2242	4	US-09-925-065A-777903	Sequence 727903,
C 256	14.8	77.9	732	5	US-10-027-632-148282	Sequence 148282,	C 329	14.8	77.9	2247	3	US-09-768-826-11	Sequence 11, Appl
C 257	14.8	77.9	732	5	US-10-027-632-148283	Sequence 148283,	C 330	14.8	77.9	2247	8	US-10-874-484-11	Sequence 11, Appl
C 258	14.8	77.9	732	5	US-10-027-632-148284	Sequence 148284,	C 331	14.8	77.9	2271	5	US-10-027-632-110785	Sequence 110785,
C 259	14.8	77.9	732	6	US-10-027-632-148281	Sequence 148281,	C 332	14.8	77.9	2271	5	US-10-027-632-110785	Sequence 110785,
C 260	14.8	77.9	732	6	US-10-027-632-148282	Sequence 148282,	C 333	14.8	77.9	2271	6	US-10-027-632-110785	Sequence 110785,
C 261	14.8	77.9	732	6	US-10-027-632-148282	Sequence 148282,	C 334	14.8	77.9	2271	6	US-10-027-632-110785	Sequence 110785,
C 262	14.8	77.9	732	6	US-10-027-632-148284	Sequence 148284,	C 335	14.8	77.9	2320	6	US-10-108-260A-1298	Sequence 1298, Ap
C 263	14.8	77.9	747	9	US-10-450-763-3178	Sequence 3178, Ap	C 336	14.8	77.9	2326	6	US-10-388-934-581	Sequence 581, App
C 264	14.8	77.9	754	5	US-10-027-632-130335	Sequence 130335,	C 337	14.8	77.9	2642	6	US-10-104-047-158	Sequence 158, App
C 265	14.8	77.9	754	6	US-10-027-632-130335	Sequence 130335,	C 338	14.8	77.9	2644	3	US-09-768-826-12	Sequence 12, Appl
C 266	14.8	77.9	754	6	US-10-472-928-4863	Sequence 130335,	C 339	14.8	77.9	2644	8	US-10-874-484-12	Sequence 12, Appl
C 267	14.8	77.9	823	7	US-10-112-944-190	Sequence 1863, Ap	C 340	14.8	77.9	2778	9	US-10-450-763-2792	Sequence 2792, Ap
C 268	14.8	77.9	840	6	US-10-032-189-57	Sequence 190, App	C 341	14.8	77.9	2778	9	US-10-450-763-2792	Sequence 2792, Ap
C 269	14.8	77.9	860	6	US-10-706-691-42	Sequence 57, Appl	C 342	14.8	77.9	2784	8	US-10-425-115-30543	Sequence 30543, A
C 270	14.8	77.9	861	4	US-09-925-065A-8170	Sequence 42, Appl	C 343	14.8	77.9	2822	8	US-10-357-930-30358	Sequence 30358, A
C 271	14.8	77.9	861	4	US-09-925-065A-8170	Sequence 8170, Ap	C 344	14.8	77.9	3030	3	US-09-972-211-43	Sequence 43, Appl
C 272	14.8	77.9	880	5	US-10-027-632-130336	Sequence 130336,	C 345	14.8	77.9	3030	7	US-10-096-625-43	Sequence 43, Appl
C 273	14.8	77.9	890	5	US-10-027-632-147666	Sequence 147666,	C 346	14.8	77.9	3050	9	US-10-956-157-5060	Sequence 5060, Ap
C 274	14.8	77.9	890	6	US-10-027-632-130336	Sequence 147666,	C 347	14.8	77.9	3058	6	US-10-094-749-271	Sequence 271, App
C 275	14.8	77.9	890	6	US-10-027-632-147666	Sequence 147666,	C 348	14.8	77.9	3191	7	US-10-741-601-197	Sequence 197, App
C 276	14.8	77.9	912	7	US-10-767-701-11561	Sequence 11561, A	C 349	14.8	77.9	3191	8	US-10-719-993-274	Sequence 274, App
C 277	14.8	77.9	930	6	US-10-029-386-20386	Sequence 11561, A	C 350	14.8	77.9	3372	3	US-09-888-615-18	Sequence 18, Appl
C 278	14.8	77.9	930	6	US-10-029-386-20386	Sequence 20386, A	C 351	14.8	77.9	3432	3	US-09-972-211-41	Sequence 41, Appl
C 279	14.8	77.9	930	6	US-10-029-386-24179	Sequence 24179, A	C 352	14.8	77.9	3432	7	US-10-096-625-41	Sequence 41, Appl
C 280	14.8	77.9	963	4	US-09-925-065A-10818	Sequence 10818, A	C 353	14.8	77.9	3432	9	US-10-433-757-29	Sequence 29, Appl
C 281	14.8	77.9	963	4	US-09-925-065A-10819	Sequence 10819, A	C 354	14.8	77.9	3432	9	US-10-433-757-29	Sequence 29, Appl
C 282	14.8	77.9	1034	3	US-09-974-300-44	Sequence 44, Appl	C 355	14.8	77.9	3583	7	US-10-236-392-209	Sequence 209, App
C 283	14.8	77.9	1034	3	US-09-974-300-44	Sequence 44, Appl	C 356	14.8	77.9	3583	7	US-10-236-392-209	Sequence 209, App
C 284	14.8	77.9	1075	8	US-10-425-115-32154	Sequence 2054, A	C 357	14.8	77.9	3591	7	US-10-741-601-196	Sequence 196, App
C 285	14.8	77.9	1081	7	US-10-741-601-108	Sequence 32154, A	C 358	14.8	77.9	3591	8	US-10-719-993-273	Sequence 273, App
C 286	14.8	77.9	1216	4	US-09-925-065A-20525	Sequence 108, App	C 359	14.8	77.9	3591	8	US-10-236-392-203	Sequence 203, App
C 287	14.8	77.9	1216	4	US-09-925-065A-20526	Sequence 20525, A	C 360	14.8	77.9	3591	5	US-10-097-340-329	Sequence 329, App
C 288	14.8	77.9	1216	4	US-09-925-065A-20527	Sequence 20526, A	C 361	14.8	77.9	3649	10	US-11-050-926-329	Sequence 329, App
C 289	14.8	77.9	1216	4	US-09-925-065A-20528	Sequence 20527, A	C 362	14.8	77.9	3649	10	US-10-275-505-20	Sequence 20, Appl
C 290	14.8	77.9	1216	4	US-09-925-065A-20529	Sequence 20528, A	C 363	14.8	77.9	3649	10	US-10-275-505-20	Sequence 20, Appl
C 291	14.8	77.9	1222	7	US-10-112-944-662	Sequence 108, App	C 364	14.8	77.9	3794	7	US-11-140-224-20	Sequence 1520, Appl
C 292	14.8	77.9	1224	4	US-09-925-065A-82818	Sequence 662, App	C 365	14.8	77.9	3794	10	US-10-172-118-1520	Sequence 1520, Ap
C 293	14.8	77.9	1224	4	US-09-925-065A-82819	Sequence 82818, A	C 366	14.8	77.9	3794	9	US-10-342-887-1520	Sequence 1669, Ap
C 294	14.8	77.9	1251	8	US-10-706-691-15	Sequence 15, Appl	C 367	14.8	77.9	4080	7	US-10-756-149-1669	Sequence 13745, A
C 295	14.8	77.9	1284	4	US-09-925-065A-77018	Sequence 77018, A	C 368	14.8	77.9	4080	10	US-11-097-143-37678	Sequence 37678, A
C 296	14.8	77.9	1284	4	US-09-925-065A-77019	Sequence 77019, A	C 369	14.8	77.9	4080	7	US-10-741-601-203	Sequence 203, App
C 297	14.8	77.9	1284	4	US-09-925-065A-77020	Sequence 77020, A	C 370	14.8	77.9	4080	9	US-10-450-763-22099	Sequence 22099, A
C 298	14.8	77.9	1284	4	US-09-925-065A-77021	Sequence 77021, A	C 371	14.8	77.9	4080	9	US-10-450-763-22099	Sequence 22099, A
C 299	14.8	77.9	1284	4	US-09-925-065A-77022	Sequence 77022, A	C 372	14.8	77.9	4080	7	US-10-741-601-202	Sequence 13744, A
C 300	14.8	77.9	1300	7	US-10-302-172-403	Sequence 77022, A	C 373	14.8	77.9	4080	10	US-11-097-143-13744	Sequence 13744, A
C 301	14.8	77.9	1303	7	US-10-425-114-4266	Sequence 403, App	C 374	14.8	77.9	4080	9	US-09-880-107-2275	Sequence 2275, App
C 302	14.8	77.9	1419	7	US-10-432-103-10	Sequence 4266, Ap	C 375	14.8	77.9	4080	5	US-10-956-157-355	Sequence 355, App
C 303	14.8	77.9	1450	5	US-10-006-542B-4	Sequence 10, Appl	C 376	14.8	77.9	4080	5	US-10-115-563-13	Sequence 13, Appl
C 304	14.8	77.9	1484	7	US-10-437-963-65131	Sequence 4, Appl	C 377	14.8	77.9	4080	5	US-10-115-563-13	Sequence 13, Appl
C 305	14.8	77.9	1494	6	US-10-203-319A-54	Sequence 65131, A	C 378	14.8	77.9	4080	5	US-10-115-563-13	Sequence 13, Appl
C 306	14.8	77.9	1515	10	US-11-028-376-7	Sequence 54, Appl	C 379	14.8	77.9	4080	9	US-10-737-318-81	Sequence 81, Appl
C 307	14.8	77.9	1525	3	US-09-981-353-168	Sequence 7, Appl	C 380	14.8	77.9	4080	6	US-10-723-860-4981	Sequence 4981, Ap
C 308	14.8	77.9	1576	8	US-10-739-930-5012	Sequence 5012, Ap	C 381	14.8	77.9	4080	5	US-10-723-860-4981	Sequence 4981, Ap
C 309	14.8	77.9	1584	7	US-10-302-172-927	Sequence 927, App	C 382	14.8	77.9	4080	5	US-10-114-087-13	Sequence 13, Appl
C 310	14.8	77.9	1656	5	US-10-027-632-97643	Sequence 97643, A	C 383	14.8	77.9	4080	6	US-10-429-802-7	Sequence 7, Appl
C 311	14.8	77.9	1656	6	US-10-027-632-97643	Sequence 97643, A	C 384	14.8	77.9	4080	2	US-08-961-527-29	Sequence 29, Appl
C 312	14.8	77.9	1686	3	US-09-775-046-14	Sequence 14, Appl	C 385	14.8	77.9	4080	7	US-10-158-844-29	Sequence 29, Appl
C 313	14.8	77.9	1733	6	US-10-094-749-39	Sequence 39, Appl	C 386	14.8	77.9	4080	7	US-10-737-082-7	Sequence 7, Appl
C 314	14.8	77.9	1801	8	US-10-425-115-141024	Sequence 141024,	C 387	14.8	77.9	4080	9	US-10-765-790-7	Sequence 7, Appl
C 315	14.8	77.9	1809	7	US-10-437-963-8634	Sequence 8634, Ap	C 388	14.8	77.9	4080	7	US-10-223-646-4	Sequence 4, Appl

C 389	14.8	77.9	16389	3	US-09-741-154-3	Sequence 3, Appli	C 462	14.4	75.8	157	7	US-10-430-201-1211	Sequence 1211, Ap
C 390	14.8	77.9	16389	6	US-10-187-900-3	Sequence 3, Appli	463	14.4	75.8	201	8	US-10-719-993-46623	Sequence 46623, A
C 391	14.8	77.9	17689	7	US-10-741-601-5645	Sequence 5645, Ap	C 464	14.4	75.8	201	8	US-10-741-600-59405	Sequence 59405, A
C 392	14.8	77.9	18800	7	US-10-741-601-5748	Sequence 5748, Ap	465	14.4	75.8	244	8	US-10-425-115-124926	Sequence 124926,
C 393	14.8	77.9	18800	8	US-10-719-993-6971	Sequence 1271, Ap	C 466	14.4	75.8	328	8	US-10-425-115-153982	Sequence 153982,
C 394	14.8	77.9	26225	3	US-09-764-869-12976	Sequence 1276, Ap	C 467	14.4	75.8	338	7	US-10-469-285-8827	Sequence 8827, App
C 395	14.8	77.9	26225	3	US-09-984-429-448	Sequence 448, App	468	14.4	75.8	360	7	US-10-767-701-15118	Sequence 15118, A
C 396	14.8	77.9	26225	3	US-10-091-504-1276	Sequence 1276, Ap	469	14.4	75.8	380	4	US-09-925-065A-600984	Sequence 600984,
C 397	14.8	77.9	26225	6	US-10-227-577-1276	Sequence 1276, Ap	470	14.4	75.8	381	9	US-10-972-079-9	Sequence 9, Appli
C 398	14.8	77.9	27246	7	US-10-741-601-5676	Sequence 5676, Ap	471	14.4	75.8	398	7	US-10-175-184A-28	Sequence 28, Appli
C 399	14.8	77.9	27246	8	US-10-719-993-6851	Sequence 6851, Ap	C 472	14.4	75.8	403	4	US-09-925-065A-181410	Sequence 181410,
C 400	14.8	77.9	32816	3	US-09-729-094-3	Sequence 3, Appli	C 473	14.4	75.8	403	4	US-09-925-065A-181411	Sequence 181411,
C 401	14.8	77.9	32816	6	US-10-435-631-3	Sequence 3, Appli	474	14.4	75.8	413	6	US-10-062-674-1582	Sequence 1582, Ap
C 402	14.8	77.9	36110	7	US-10-741-601-5675	Sequence 5675, Ap	475	14.4	75.8	422	7	US-10-424-599-134554	Sequence 134554,
C 403	14.8	77.9	36110	7	US-10-719-993-6850	Sequence 6850, Ap	476	14.4	75.8	424	9	US-10-972-079-8	Sequence 8, Appli
C 404	14.8	77.9	39768	5	US-10-087-192-1030	Sequence 1030, Ap	477	14.4	75.8	431	3	US-09-983-965-2504	Sequence 7, Appli
C 405	14.8	77.9	43981	6	US-10-292-798-1243	Sequence 1243, Ap	C 478	14.4	75.8	432	3	US-09-918-995-8665	Sequence 7, Appli
C 406	14.8	77.9	47115	7	US-10-052-482-133	Sequence 133, App	C 479	14.4	75.8	434	3	US-09-925-065A-573795	Sequence 573795,
C 407	14.8	77.9	52772	5	US-10-719-993-6855	Sequence 6855, Ap	480	14.4	75.8	444	5	US-10-027-632-44104	Sequence 44104, A
C 408	14.8	77.9	68255	5	US-10-087-192-772	Sequence 772, App	481	14.4	75.8	449	5	US-10-027-632-69699	Sequence 69699, A
C 409	14.8	77.9	71132	5	US-10-087-192-1867	Sequence 1867, Ap	482	14.4	75.8	449	5	US-10-027-632-284534	Sequence 284534,
C 410	14.8	77.9	72332	7	US-10-052-482-58	Sequence 80, Appl	483	14.4	75.8	449	6	US-10-027-632-44104	Sequence 44104, A
C 411	14.8	77.9	72409	9	US-10-737-318-80	Sequence 80, Appl	484	14.4	75.8	449	6	US-10-027-632-69699	Sequence 69699, A
C 412	14.8	77.9	74665	8	US-10-719-993-6854	Sequence 6854, Ap	485	14.4	75.8	449	6	US-10-027-632-294534	Sequence 294534,
C 413	14.8	77.9	76150	6	US-10-085-117-157	Sequence 157, App	486	14.4	75.8	449	6	US-10-027-632-69699	Sequence 69699, A
C 414	14.8	77.9	80032	8	US-10-741-600-17727	Sequence 1727, A	C 487	14.4	75.8	475	5	US-10-027-632-72723	Sequence 72723, A
C 415	14.8	77.9	80161	7	US-10-329-148A-1	Sequence 1, Appli	C 488	14.4	75.8	475	5	US-10-027-632-108715	Sequence 108715,
C 416	14.8	77.9	81684	7	US-10-322-281-673	Sequence 673, App	C 489	14.4	75.8	475	6	US-10-027-632-72723	Sequence 72723, A
C 417	14.8	77.9	83222	8	US-10-719-993-6898	Sequence 6898, Ap	C 490	14.4	75.8	475	6	US-10-027-632-108715	Sequence 108715,
C 418	14.8	77.9	84409	7	US-10-741-601-5696	Sequence 5696, Ap	C 491	14.4	75.8	478	4	US-09-925-065A-219275	Sequence 219275,
C 419	14.8	77.9	84409	5	US-10-741-600-17771	Sequence 17771, A	492	14.4	75.8	478	4	US-09-925-065A-219276	Sequence 219276,
C 420	14.8	77.9	96499	5	US-10-087-192-2011	Sequence 2011, Ap	493	14.4	75.8	508	4	US-09-925-065A-463386	Sequence 463386,
C 421	14.8	77.9	96597	6	US-10-085-117-112	Sequence 112, App	494	14.4	75.8	508	9	US-10-972-079-6	Sequence 6, Appli
C 422	14.8	77.9	98716	5	US-10-741-600-17754	Sequence 1754, A	495	14.4	75.8	513	5	US-10-027-632-125496	Sequence 125496,
C 423	14.8	77.9	102374	5	US-10-087-192-667	Sequence 667, App	496	14.4	75.8	513	6	US-10-027-632-125496	Sequence 125496,
C 424	14.8	77.9	110096	3	US-09-880-107-1542	Sequence 1542, Ap	C 497	14.4	75.8	513	9	US-10-756-149-3109	Sequence 3109, Ap
C 425	14.8	77.9	113024	8	US-10-741-600-17920	Sequence 17920, A	516	14.4	75.8	526	4	US-09-925-065A-180667	Sequence 180667,
C 426	14.8	77.9	113585	6	US-10-188-470-12	Sequence 12, Appl	C 498	14.4	75.8	536	4	US-09-925-065A-428457	Sequence 428457,
C 427	14.8	77.9	114793	6	US-10-148-806-3	Sequence 3, Appli	C 499	14.4	75.8	536	4	US-09-925-065A-428458	Sequence 428458,
C 428	14.8	77.9	114793	9	US-10-859-792-3	Sequence 3, Appli	C 500	14.4	75.8	536	4	US-09-925-065A-428459	Sequence 428459,
C 429	14.8	77.9	124289	5	US-10-087-192-817	Sequence 817, App	C 501	14.4	75.8	539	5	US-10-027-632-83189	Sequence 83189, A
C 430	14.8	77.9	130244	9	US-10-461-862-104	Sequence 104, App	502	14.4	75.8	539	6	US-10-027-632-83189	Sequence 83189, A
C 431	14.8	77.9	131576	5	US-10-087-192-1564	Sequence 1564, Ap	C 503	14.4	75.8	539	6	US-09-925-065A-91030	Sequence 91030, A
C 432	14.8	77.9	134841	5	US-10-087-192-1987	Sequence 1987, Ap	C 504	14.4	75.8	541	4	US-09-925-065A-91031	Sequence 91031, A
C 433	14.8	77.9	179041	7	US-10-741-601-5678	Sequence 5678, Ap	C 505	14.4	75.8	541	4	US-09-925-065A-332013	Sequence 332013,
C 434	14.8	77.9	274869	8	US-10-741-600-17650	Sequence 17650, A	C 506	14.4	75.8	541	4	US-09-925-065A-609353	Sequence 609353,
C 435	14.8	77.9	314364	9	US-10-917-647-3	Sequence 3, Appli	C 507	14.4	75.8	567	4	US-09-925-065A-609354	Sequence 609354,
C 436	14.8	77.9	326014	3	US-09-731-231A-3	Sequence 3, Appli	C 508	14.4	75.8	567	5	US-10-027-632-281069	Sequence 281069,
C 437	14.8	77.9	326014	7	US-10-751-985-3	Sequence 3, Appli	C 509	14.4	75.8	573	5	US-10-027-632-281070	Sequence 281070,
C 438	14.8	77.9	330973	5	US-10-087-192-1498	Sequence 1498, Ap	C 510	14.4	75.8	573	5	US-10-027-632-281071	Sequence 281071,
C 439	14.8	77.9	340449	9	US-09-903-582-3	Sequence 3, Appli	C 511	14.4	75.8	573	5	US-10-027-632-281072	Sequence 281072,
C 440	14.8	77.9	495635	9	US-10-737-082-12	Sequence 12, Appl	C 512	14.4	75.8	573	5	US-10-027-632-281072	Sequence 281072,
C 441	14.8	77.9	495635	9	US-10-765-790-12	Sequence 12, Appl	C 513	14.4	75.8	573	6	US-10-027-632-281072	Sequence 281072,
C 442	14.8	77.9	608916	9	US-10-461-862-1	Sequence 1, Appli	C 514	14.4	75.8	573	6	US-10-027-632-281071	Sequence 281071,
C 443	14.8	77.9	705636	9	US-10-737-082-30	Sequence 30, Appl	C 515	14.4	75.8	573	6	US-10-027-632-281072	Sequence 281072,
C 444	14.8	77.9	705636	9	US-10-765-790-30	Sequence 30, Appl	C 516	14.4	75.8	573	6	US-10-027-632-281072	Sequence 281072,
C 445	14.8	77.9	2162598	8	US-10-472-928-4979	Sequence 4979, Ap	517	14.4	75.8	575	5	US-10-027-632-47889	Sequence 47889, A
C 446	14.8	77.9	2256646	7	US-10-470-565-1	Sequence 1, Appli	518	14.4	75.8	575	5	US-10-027-632-59776	Sequence 59776, A
C 447	14.8	77.9	9025608	6	US-10-156-761-1	Sequence 1, Appli	519	14.4	75.8	575	5	US-10-027-632-59776	Sequence 59776, A
C 448	14.6	76.8	444	9	US-10-972-079-1921	Sequence 1921, Ap	520	14.4	75.8	575	5	US-10-027-632-107495	Sequence 107495,
C 449	14.6	76.8	532	9	US-10-972-079-1920	Sequence 1920, Ap	521	14.4	75.8	575	6	US-10-027-632-47889	Sequence 47889, A
C 450	14.6	76.8	551	9	US-10-972-079-1919	Sequence 1919, Ap	522	14.4	75.8	575	6	US-10-027-632-59776	Sequence 59776, A
C 451	14.6	76.8	600	9	US-10-972-079-1917	Sequence 1917, Ap	523	14.4	75.8	575	6	US-10-027-632-62064	Sequence 62064, A
C 452	14.6	76.8	600	9	US-10-972-079-1918	Sequence 1918, Ap	524	14.4	75.8	575	6	US-10-027-632-107495	Sequence 107495,
C 453	14.4	75.8	25	7	US-10-719-956-243607	Sequence 243607,	525	14.4	75.8	576	4	US-09-925-065A-459360	Sequence 459360,
C 454	14.4	75.8	25	10	US-11-036-317-509007	Sequence 509007,	526	14.4	75.8	576	4	US-09-925-065A-459361	Sequence 459361,
C 455	14.4	75.8	25	10	US-11-036-317-528835	Sequence 528835,	527	14.4	75.8	576	4	US-09-925-065A-459362	Sequence 459362,
C 456	14.4	75.8	25	10	US-11-036-317-586932	Sequence 586932,	528	14.4	75.8	577	4	US-09-925-065A-588687	Sequence 588687,
C 457	14.4	75.8	25	10	US-11-036-317-738959	Sequence 738959,	529	14.4	75.8	582	4	US-09-925-065A-769505	Sequence 769505,
C 458	14.4	75.8	27	6	US-10-104-271-19	Sequence 19, Appl	530	14.4	75.8	591	4	US-09-925-065A-762767	Sequence 762767,
C 459	14.4	75.8	28	6	US-10-104-271-9	Sequence 9, Appli	531	14.4	75.8	591	4	US-09-925-065A-762768	Sequence 762768,
C 460	14.4	75.8	149	7	US-10-424-599-71835	Sequence 71835, A	532	14.4	75.8	592	9	US-10-972-079-5	Sequence 5, Appli
C 461	14.4	75.8	157	7	US-10-430-201-1210	Sequence 1210, Ap	533	14.4	75.8	593	4	US-09-925-065A-767855	Sequence 767855,
							534	14.4	75.8	600	9	US-10-972-079-3745	Sequence 3745, Ap

535	14.4	75.8	600	9	US-10-972-079-3746	Sequence 3746, Ap	608	14.4	75.8	1356	4	US-09-925-065A-386	Sequence 386, App
536	14.4	75.8	600	9	US-10-972-079-3747	Sequence 3747, Ap	609	14.4	75.8	1358	4	US-09-925-065A-72986	Sequence 72986, A
C 537	14.4	75.8	600	9	US-10-972-079-53521	Sequence 53521, A	610	14.4	75.8	1415	7	US-10-767-701-15442	Sequence 15442, A
C 538	14.4	75.8	600	9	US-10-972-079-53522	Sequence 53522, A	611	14.4	75.8	1456	3	US-09-880-107-2226	Sequence 2226, Ap
539	14.4	75.8	604	4	US-09-925-065A-146923	Sequence 146923, A	C 612	14.4	75.8	1456	3	US-09-919-197-3	Sequence 3, Appli
C 540	14.4	75.8	605	4	US-09-925-065A-284675	Sequence 284675, A	C 613	14.4	75.8	1456	8	US-10-835-208-3	Sequence 3, Appli
C 541	14.4	75.8	605	4	US-09-925-065A-284676	Sequence 284676, A	C 614	14.4	75.8	1476	9	US-10-450-763-13274	Sequence 13274, A
542	14.4	75.8	613	4	US-09-925-065A-570861	Sequence 570861, A	C 615	14.4	75.8	1496	9	US-10-956-157-5138	Sequence 5138, Ap
543	14.4	75.8	613	4	US-09-925-065A-570862	Sequence 570862, A	C 616	14.4	75.8	1565	3	US-09-925-065A-718893	Sequence 718893, A
544	14.4	75.8	613	4	US-09-925-065A-570863	Sequence 570863, A	C 617	14.4	75.8	1568	3	US-09-925-065A-718893	Sequence 718893, A
545	14.4	75.8	613	4	US-09-925-065A-570864	Sequence 570864, A	C 618	14.4	75.8	1568	9	US-10-889-890-7	Sequence 7, Appli
C 546	14.4	75.8	628	4	US-09-925-065A-493022	Sequence 493022, A	C 619	14.4	75.8	1589	5	US-10-889-890-7	Sequence 7, Appli
C 547	14.4	75.8	636	8	US-10-425-115-181424	Sequence 181424, A	C 620	14.4	75.8	1637	7	US-10-302-172-389	Sequence 389, App
C 548	14.4	75.8	638	4	US-09-925-065A-718441	Sequence 718441, A	C 621	14.4	75.8	1655	7	US-10-425-114-26144	Sequence 26144, A
C 549	14.4	75.8	643	4	US-09-925-065A-456558	Sequence 456558, A	C 622	14.4	75.8	1655	3	US-09-888-615-47	Sequence 47, Appli
C 550	14.4	75.8	646	4	US-09-925-065A-693320	Sequence 693320, A	C 623	14.4	75.8	1671	3	US-09-888-615-47	Sequence 47, Appli
C 551	14.4	75.8	646	4	US-09-925-065A-693321	Sequence 693321, A	C 624	14.4	75.8	1681	8	US-10-425-115-73510	Sequence 73510, A
552	14.4	75.8	648	4	US-09-925-065A-931368	Sequence 931368, A	C 625	14.4	75.8	1709	5	US-10-425-115-73510	Sequence 73510, A
C 553	14.4	75.8	662	4	US-09-925-065A-947252	Sequence 947252, A	C 626	14.4	75.8	1716	7	US-10-425-115-73510	Sequence 73510, A
554	14.4	75.8	676	5	US-10-027-632-205345	Sequence 205345, A	C 627	14.4	75.8	1734	7	US-10-317-278-4	Sequence 278, A
555	14.4	75.8	676	6	US-10-027-632-205345	Sequence 205345, A	C 628	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 556	14.4	75.8	679	5	US-10-027-632-199428	Sequence 199428, A	C 629	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 557	14.4	75.8	679	5	US-10-027-632-199429	Sequence 199429, A	C 630	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 558	14.4	75.8	679	6	US-10-027-632-199428	Sequence 199428, A	C 631	14.4	75.8	1968	6	US-10-369-493-38375	Sequence 38375, A
C 559	14.4	75.8	679	6	US-10-027-632-199429	Sequence 199429, A	C 632	14.4	75.8	2151	8	US-10-369-493-38375	Sequence 38375, A
C 560	14.4	75.8	685	3	US-09-814-353-20457	Sequence 20457, A	C 633	14.4	75.8	2202	6	US-10-425-115-130976	Sequence 130976, A
C 561	14.4	75.8	698	8	US-10-723-860-2322	Sequence 2322, Ap	C 634	14.4	75.8	2286	7	US-10-108-260A-1283	Sequence 1283, Ap
562	14.4	75.8	699	7	US-10-767-701-15283	Sequence 15283, A	C 635	14.4	75.8	2343	8	US-10-767-701-15283	Sequence 15283, A
563	14.4	75.8	714	5	US-10-027-632-142108	Sequence 142108, A	C 636	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
564	14.4	75.8	714	6	US-10-027-632-142108	Sequence 142108, A	C 637	14.4	75.8	2369	5	US-10-027-632-254471	Sequence 254471, A
C 565	14.4	75.8	719	4	US-09-925-065A-920064	Sequence 920064, A	C 638	14.4	75.8	2369	5	US-10-027-632-254472	Sequence 254472, A
C 566	14.4	75.8	719	4	US-09-925-065A-920065	Sequence 920065, A	C 639	14.4	75.8	2369	5	US-10-027-632-254473	Sequence 254473, A
C 567	14.4	75.8	719	4	US-09-925-065A-920066	Sequence 920066, A	C 640	14.4	75.8	2369	5	US-10-027-632-254474	Sequence 254474, A
568	14.4	75.8	720	7	US-10-282-122A-23754	Sequence 23754, A	C 641	14.4	75.8	2369	6	US-10-027-632-254471	Sequence 254471, A
C 569	14.4	75.8	737	5	US-10-027-632-12120	Sequence 12120, A	C 642	14.4	75.8	2369	6	US-10-027-632-254472	Sequence 254472, A
C 570	14.4	75.8	737	6	US-10-027-632-12120	Sequence 12120, A	C 643	14.4	75.8	2369	6	US-10-027-632-254473	Sequence 254473, A
C 571	14.4	75.8	756	6	US-10-104-271-5	Sequence 5, Appli	C 644	14.4	75.8	2545	8	US-10-027-632-254474	Sequence 254474, A
572	14.4	75.8	761	4	US-09-925-065A-931370	Sequence 931370, A	C 645	14.4	75.8	2644	10	US-10-425-115-130974	Sequence 130974, A
573	14.4	75.8	761	4	US-09-925-065A-931371	Sequence 931371, A	C 646	14.4	75.8	2644	10	US-11-097-143-23458	Sequence 23458, A
C 574	14.4	75.8	766	4	US-09-925-065A-920062	Sequence 920062, A	C 647	14.4	75.8	2713	9	US-10-473-974-151	Sequence 151, App
C 575	14.4	75.8	766	4	US-09-925-065A-920063	Sequence 920063, A	C 648	14.4	75.8	2713	9	US-10-956-157-1702	Sequence 1702, Ap
C 576	14.4	75.8	785	5	US-10-027-632-158388	Sequence 158388, A	C 649	14.4	75.8	2796	6	US-10-364-237-1167	Sequence 1167, Ap
C 577	14.4	75.8	785	6	US-10-027-632-158388	Sequence 158388, A	C 650	14.4	75.8	2902	4	US-09-925-065A-705850	Sequence 705850, A
C 578	14.4	75.8	813	9	US-10-450-763-5535	Sequence 5535, Ap	C 651	14.4	75.8	2919	6	US-10-369-493-44751	Sequence 44751, A
C 579	14.4	75.8	879	7	US-10-282-122A-6844	Sequence 6844, Ap	C 652	14.4	75.8	2925	3	US-09-796-753-65	Sequence 65, Appli
C 580	14.4	75.8	881	5	US-10-027-632-131317	Sequence 131317, A	C 653	14.4	75.8	2964	9	US-10-450-763-9185	Sequence 9185, Ap
C 581	14.4	75.8	881	5	US-10-027-632-131318	Sequence 131318, A	C 654	14.4	75.8	3080	8	US-10-486-868-4	Sequence 4, Appli
C 582	14.4	75.8	881	6	US-10-027-632-131317	Sequence 131317, A	C 655	14.4	75.8	3135	5	US-10-764-420-2514	Sequence 2514, Ap
C 583	14.4	75.8	881	6	US-10-027-632-131318	Sequence 131318, A	C 656	14.4	75.8	3501	5	US-10-027-632-256353	Sequence 256353, A
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C 585	14.4	75.8	897	4	US-09-925-065A-66217	Sequence 66217, A	C 658	14.4	75.8	3842	4	US-09-925-065A-723699	Sequence 723699, A
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C 588	14.4	75.8	909	9	US-10-889-890-3	Sequence 3, Appli	C 661	14.4	75.8	5135	9	US-10-889-891-19	Sequence 19, Appli
C 589	14.4	75.8	921	3	US-09-735-713A-1	Sequence 1, Appli	C 662	14.4	75.8	5135	9	US-10-889-891-118	Sequence 118, App
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C 600	14.4	75.8	1185	8	US-10-739-930-1593	Sequence 1593, A	C 673	14.4	75.8	8717	6	US-10-062-674-1447	Sequence 1447, Ap
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C 606	14.4	75.8	1301	6	US-10-117-722-268	Sequence 268, App	C 679	14.4	75.8	15817	10	US-11-097-143-9709	Sequence 9709, Ap
C 607	14.4	75.8	1301	9	US-10-122-851-268	Sequence 268, App	C 680	14.4	75.8	21295	6	US-10-252-157-467	Sequence 467, App

c 681	14.4	75.8	25860	5	US-10-087-192-1696	Sequence 1696, Ap	754	14.2	74.7	274	8	US-10-357-930-3438	Sequence 3438, Ap
c 682	14.4	75.8	25891	5	US-10-087-192-1657	Sequence 1657, Ap	755	14.2	74.7	280	7	US-10-242-535A-1107	Sequence 1107, Ap
c 683	14.4	75.8	33294	9	US-10-737-318-42	Sequence 42, Appl	756	14.2	74.7	280	7	US-10-085-783A-1107	Sequence 1107, Ap
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c 685	14.4	75.8	44990	7	US-10-082-482-2117	Sequence 217, App	c 758	14.2	74.7	288	8	US-10-357-930-3503	Sequence 3503, Ap
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c 691	14.4	75.8	98642	5	US-10-087-192-1105	Sequence 1105, Ap	c 764	14.2	74.7	301	3	US-10-425-115-106683	Sequence 106683, App
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c 715	14.2	74.7	25	10	US-11-036-317-731316	Sequence 731316, A	c 788	14.2	74.7	435	8	US-10-357-930-33901	Sequence 33901, A
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c 726	14.2	74.7	152	6	US-10-057-475B-7701	Sequence 7701, Ap	c 799	14.2	74.7	465	3	US-09-918-995-225	Sequence 225, App
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c 731	14.2	74.7	183	7	US-10-437-963-90519	Sequence 90519, A	c 804	14.2	74.7	481	4	US-09-925-065A-269692	Sequence 269692, A
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c 733	14.2	74.7	201	8	US-10-719-993-28677	Sequence 28677, A	c 806	14.2	74.7	497	4	US-09-925-065A-546614	Sequence 546614, A
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c 737	14.2	74.7	249	7	US-10-085-783A-10434	Sequence 10434, A	c 810	14.2	74.7	508	8	US-10-357-930-33828	Sequence 33828, A
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c 742	14.2	74.7	249	8	US-10-357-930-12728	Sequence 12728, A	c 815	14.2	74.7	508	8	US-10-357-930-42719	Sequence 42719, A
c 743	14.2	74.7	249	8	US-10-357-930-12731	Sequence 12731, A	c 816	14.2	74.7	508	8	US-10-357-930-42721	Sequence 42721, A
c 744	14.2	74.7	249	8	US-10-357-930-12745	Sequence 12745, A	c 817	14.2	74.7	508	8	US-10-357-930-42722	Sequence 42722, A
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c 748	14.2	74.7	257	8	US-10-357-930-3546	Sequence 3546, Ap	c 821	14.2	74.7	511	5	US-10-040-862-4220	Sequence 4220, Ap
c 749	14.2	74.7	258	7	US-10-437-963-6932	Sequence 6932, Ap	c 822	14.2	74.7	511	6	US-10-057-475B-4220	Sequence 4220, Ap
c 750	14.2	74.7	265	8	US-10-357-930-3624	Sequence 3624, Ap	c 823	14.2	74.7	511	6	US-10-154-884B-4220	Sequence 4220, Ap
c 751	14.2	74.7	268	8	US-10-357-930-3499	Sequence 3499, Ap	c 824	14.2	74.7	512	6	US-10-764-324-4220	Sequence 4220, Ap
c 752	14.2	74.7	269	7	US-10-357-930-10208	Sequence 10208, A	c 825	14.2	74.7	512	6	US-10-029-386-6451	Sequence 6451, Ap
c 753	14.2	74.7	269	7	US-10-085-783A-10208	Sequence 10208, A	c 826	14.2	74.7	513	6	US-10-029-386-6451	Sequence 9485, Ap

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	14.2	74.7	516	6	US-10-027-632-290546	Sequence 290546,	c 904	14.2	74.7	637	4	US-09-925-065A-752169	Sequence 752169,
	14.2	74.7	516	6	US-10-027-632-290547	Sequence 290547,	c 905	14.2	74.7	638	4	US-09-925-065A-941561	Sequence 941561,
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c 834	14.2	74.7	520	4	US-10-425-115-77925	Sequence 77925, A	c 908	14.2	74.7	639	4	US-09-925-065A-490148	Sequence 490148,
c 835	14.2	74.7	523	8	US-09-925-065A-638029	Sequence 638029,	c 909	14.2	74.7	640	5	US-10-027-632-122226	Sequence 122226,
c 836	14.2	74.7	528	4	US-09-925-065A-638029	Sequence 638029,	c 910	14.2	74.7	640	5	US-10-027-632-122227	Sequence 122227,
c 837	14.2	74.7	534	3	US-09-974-300-2268	Sequence 2268, App	c 911	14.2	74.7	640	6	US-10-027-632-122227	Sequence 122227,
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c 845	14.2	74.7	543	4	US-09-925-065A-62855	Sequence 62855, A	c 919	14.2	74.7	681	4	US-09-925-065A-58573	Sequence 58573, A
c 846	14.2	74.7	544	4	US-09-925-065A-456115	Sequence 456115, A	c 920	14.2	74.7	684	5	US-10-027-632-13025	Sequence 13025, A
c 847	14.2	74.7	546	9	US-10-972-079-65795	Sequence 65795, A	c 921	14.2	74.7	684	5	US-10-027-632-13025	Sequence 13025, A
c 848	14.2	74.7	550	9	US-10-972-079-65794	Sequence 65794, A	c 922	14.2	74.7	698	4	US-09-925-065A-72836	Sequence 72836, A
c 849	14.2	74.7	553	5	US-10-206-901B-4	Sequence 4, Appli	c 923	14.2	74.7	708	4	US-09-925-065A-83504	Sequence 83504, A
c 850	14.2	74.7	560	3	US-09-738-973-301	Sequence 301, App	c 924	14.2	74.7	708	4	US-09-925-065A-83505	Sequence 83505, A
c 851	14.2	74.7	560	3	US-09-854-133-301	Sequence 301, App	c 925	14.2	74.7	708	4	US-09-925-065A-83506	Sequence 83506, A
c 852	14.2	74.7	560	5	US-10-144-649A-301	Sequence 301, App	c 926	14.2	74.7	708	4	US-09-925-065A-83507	Sequence 83507, A
c 853	14.2	74.7	561	4	US-09-925-065A-926320	Sequence 926320,	c 927	14.2	74.7	708	4	US-09-925-065A-83508	Sequence 83508, A
c 854	14.2	74.7	562	4	US-09-925-065A-923703	Sequence 923703,	c 928	14.2	74.7	708	9	US-09-925-065A-83508	Sequence 83508, A
c 855	14.2	74.7	563	8	US-10-357-930-58383	Sequence 58383, A	c 929	14.2	74.7	713	5	US-10-450-763-24580	Sequence 24580, A
c 856	14.2	74.7	564	4	US-09-925-065A-291184	Sequence 291184,	c 930	14.2	74.7	713	5	US-10-027-632-14616	Sequence 14616, A
c 857	14.2	74.7	564	4	US-09-925-065A-291185	Sequence 291185,	c 931	14.2	74.7	713	6	US-10-027-632-14616	Sequence 14616, A
c 858	14.2	74.7	564	4	US-09-925-065A-291186	Sequence 291186,	c 932	14.2	74.7	714	5	US-10-027-632-23745	Sequence 23745, A
c 859	14.2	74.7	569	4	US-09-925-065A-490146	Sequence 490146,	c 933	14.2	74.7	714	6	US-10-027-632-23745	Sequence 23745, A
c 860	14.2	74.7	570	4	US-09-925-065A-512672	Sequence 512672,	c 934	14.2	74.7	719	5	US-10-027-632-149328	Sequence 149328,
c 861	14.2	74.7	570	4	US-09-925-065A-512673	Sequence 512673,	c 935	14.2	74.7	719	6	US-10-027-632-149328	Sequence 149328,
c 862	14.2	74.7	574	9	US-10-450-763-12112	Sequence 12112, A	c 936	14.2	74.7	719	6	US-10-027-632-149329	Sequence 149329,
c 863	14.2	74.7	575	4	US-09-925-065A-884426	Sequence 884426,	c 937	14.2	74.7	720	5	US-10-027-632-169108	Sequence 169108,
c 864	14.2	74.7	575	4	US-09-925-065A-884427	Sequence 884427,	c 938	14.2	74.7	720	6	US-10-027-632-169108	Sequence 169108,
c 865	14.2	74.7	579	4	US-09-925-065A-141724	Sequence 141724,	c 939	14.2	74.7	722	5	US-10-027-632-169005	Sequence 169005,
c 866	14.2	74.7	579	4	US-09-925-065A-141725	Sequence 141725,	c 940	14.2	74.7	722	6	US-10-027-632-169005	Sequence 169005,
c 867	14.2	74.7	579	4	US-09-925-065A-141726	Sequence 141726,	c 941	14.2	74.7	725	9	US-10-956-157-2792	Sequence 2792, App
c 868	14.2	74.7	579	7	US-10-424-599-127308	Sequence 127308,	c 942	14.2	74.7	725	9	US-10-956-157-2792	Sequence 2792, App
c 869	14.2	74.7	581	4	US-09-925-065A-435416	Sequence 435416,	c 943	14.2	74.7	733	7	US-10-425-114-13713	Sequence 13713, A
c 870	14.2	74.7	585	5	US-10-027-632-210182	Sequence 210182,	c 944	14.2	74.7	733	7	US-10-425-114-13713	Sequence 13713, A
c 871	14.2	74.7	585	6	US-10-027-632-210182	Sequence 210182,	c 945	14.2	74.7	739	8	US-09-814-353-20128	Sequence 20128, A
c 872	14.2	74.7	586	6	US-10-029-386-941	Sequence 941, App	c 946	14.2	74.7	755	3	US-09-814-353-20128	Sequence 20128, A
c 873	14.2	74.7	595	7	US-10-425-114-19109	Sequence 19109, A	c 947	14.2	74.7	760	7	US-10-437-963-6991	Sequence 6991, App
c 874	14.2	74.7	597	4	US-09-925-065A-809231	Sequence 809231,	c 948	14.2	74.7	765	8	US-10-425-115-165171	Sequence 165171, A
c 875	14.2	74.7	597	4	US-09-925-065A-533756	Sequence 533756,	c 949	14.2	74.7	771	7	US-10-437-963-71361	Sequence 71361, A
c 876	14.2	74.7	599	4	US-09-925-065A-729629	Sequence 729629,	c 950	14.2	74.7	772	8	US-10-425-115-74327	Sequence 74327, A
c 877	14.2	74.7	599	4	US-09-925-065A-729630	Sequence 729630,	c 951	14.2	74.7	778	5	US-10-027-632-157790	Sequence 157790,
c 878	14.2	74.7	599	9	US-10-972-079-57516	Sequence 57516, A	c 952	14.2	74.7	780	8	US-10-425-115-42671	Sequence 42671, A
c 879	14.2	74.7	599	9	US-10-972-079-57517	Sequence 57517, A	c 953	14.2	74.7	789	5	US-10-027-632-165317	Sequence 165317, A
c 880	14.2	74.7	600	3	US-09-864-761-7097	Sequence 7097, App	c 954	14.2	74.7	789	6	US-10-027-632-165317	Sequence 165317, A
c 881	14.2	74.7	600	9	US-10-972-079-40039	Sequence 40039, A	c 955	14.2	74.7	789	8	US-10-774-355A-835	Sequence 835, App
c 882	14.2	74.7	600	9	US-10-972-079-40040	Sequence 40040, A	c 956	14.2	74.7	791	5	US-10-027-632-171252	Sequence 171252,
c 883	14.2	74.7	600	9	US-10-972-079-57518	Sequence 57518, A	c 957	14.2	74.7	791	6	US-10-027-632-171252	Sequence 171252,
c 884	14.2	74.7	600	9	US-10-972-079-87541	Sequence 87541, A	c 958	14.2	74.7	795	5	US-10-027-632-167727	Sequence 167727,
c 885	14.2	74.7	609	5	US-10-027-632-266130	Sequence 266130,	c 959	14.2	74.7	795	6	US-10-027-632-167727	Sequence 167727,
c 886	14.2	74.7	609	5	US-10-027-632-266131	Sequence 266131,	c 960	14.2	74.7	797	7	US-10-767-701-4259	Sequence 4259, App
c 887	14.2	74.7	609	5	US-10-027-632-266132	Sequence 266132,	c 961	14.2	74.7	797	8	US-10-774-355A-939	Sequence 939, App
c 888	14.2	74.7	609	6	US-10-027-632-266130	Sequence 266130,	c 962	14.2	74.7	803	6	US-10-012-697-437	Sequence 437, App
c 889	14.2	74.7	609	6	US-10-027-632-266131	Sequence 266131,	c 963	14.2	74.7	803	9	US-10-779-543-22437	Sequence 22437, A
c 890	14.2	74.7	609	6	US-10-027-632-266132	Sequence 266132,	c 964	14.2	74.7	809	5	US-10-027-632-164874	Sequence 164874,
c 891	14.2	74.7	611	4	US-09-925-065A-769495	Sequence 769495,	c 965	14.2	74.7	809	6	US-10-027-632-164874	Sequence 164874,
c 892	14.2	74.7	613	4	US-09-925-065A-765661	Sequence 765661,	c 966	14.2	74.7	811	5	US-10-027-632-152682	Sequence 152682,
c 893	14.2	74.7	614	4	US-09-925-065A-761747	Sequence 761747,	c 967	14.2	74.7	811	6	US-10-027-632-152682	Sequence 152682,
c 894	14.2	74.7	616	4	US-09-925-065A-490147	Sequence 490147,	c 968	14.2	74.7	813	8	US-10-450-763-10868	Sequence 10868, A
c 895	14.2	74.7	622	4	US-09-925-065A-95909	Sequence 95909, A	c 969	14.2	74.7	813	8	US-10-425-115-74450	Sequence 74450, A
c 896	14.2	74.7	623	4	US-09-925-065A-319115	Sequence 319115,	c 970	14.2	74.7	822	7	US-10-425-114-23223	Sequence 23223, A
c 897	14.2	74.7	628	4	US-09-925-065A-722494	Sequence 722494,	c 971	14.2	74.7	827	5	US-10-027-632-159439	Sequence 159439,
c 898	14.2	74.7	628	4	US-09-925-065A-722495	Sequence 722495,	c 972	14.2	74.7	827	6	US-10-027-632-159439	Sequence 159439,
c 899	14.2	74.7	633	5	US-10-027-632-271421	Sequence 271421,							

973 14.2 74.7 829 5 US-10-027-632-155561 Sequence 155561,
974 14.2 74.7 829 6 US-10-027-632-155561 Sequence 155561,
c 975 14.2 74.7 831 4 US-09-925-065A-82007 Sequence 82007, A
976 14.2 74.7 835 7 US-10-276-774-1235 Sequence 1235, Ap
977 14.2 74.7 836 7 US-10-425-114-22286 Sequence 22286, A
978 14.2 74.7 838 8 US-10-357-930-22292 Sequence 22292, A
c 979 14.2 74.7 855 7 US-10-437-963-54895 Sequence 54895, A
980 14.2 74.7 870 6 US-10-310-154-134 Sequence 134, App
981 14.2 74.7 870 9 US-10-732-923-221 Sequence 221, App
c 982 14.2 74.7 874 5 US-10-027-632-128588 Sequence 128588,
c 983 14.2 74.7 874 5 US-10-027-632-128589 Sequence 128589,
c 984 14.2 74.7 874 6 US-10-027-632-128588 Sequence 128588,
c 985 14.2 74.7 874 6 US-10-027-632-128589 Sequence 128589,
c 986 14.2 74.7 875 7 US-10-757-701-10483 Sequence 10483, A
c 987 14.2 74.7 901 7 US-10-425-114-30687 Sequence 30687, A
c 988 14.2 74.7 914 8 US-10-774-355A-866 Sequence 866, App
989 14.2 74.7 923 5 US-10-027-632-122195 Sequence 122195,
990 14.2 74.7 923 6 US-10-027-632-122195 Sequence 122195,
c 991 14.2 74.7 933 3 US-09-764-864-518 Sequence 518, App
c 992 14.2 74.7 957 7 US-10-425-114-8047 Sequence 8047, Ap
993 14.2 74.7 967 4 US-09-925-065A-698141 Sequence 698141,
994 14.2 74.7 996 8 US-10-425-115-74451 Sequence 74451, A
995 14.2 74.7 999 9 US-10-450-763-14140 Sequence 14140, A
c 996 14.2 74.7 1005 4 US-09-925-065A-2087 Sequence 2087, Ap
c 997 14.2 74.7 1005 4 US-09-925-065A-2088 Sequence 2088, Ap
c 998 14.2 74.7 1005 8 US-10-739-930-2305 Sequence 2305, Ap
c 999 14.2 74.7 1043 7 US-10-169-395-149 Sequence 149, App
c1000 14.2 74.7 1052 7 US-10-424-599-33651 Sequence 33651, A

ALIGNMENTS

RESULT 1
US-10-085-612-4
; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburg, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4

Query Match 91.6%; Score 17.4; DB 5; Length 1254;
Best Local Similarity 94.7%; Pred. No. 80;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
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Db 690 GGGGTCTGTCTGGCTGGGC 708

RESULT 2
US-09-925-065A-675137
; Sequence 675137, Application US/09925065A

; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 675137
; LENGTH: 2214
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-675137

Query Match 91.6%; Score 17.4; DB 4; Length 2214;
Best Local Similarity 94.7%; Pred. No. 75;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
|||||
Db 652 GGGGTCTGTCTGGCTGGGC 670

RESULT 3
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 660
; LENGTH: 177531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-660

Query Match 91.6%; Score 17.4; DB 8; Length 177531;
Best Local Similarity 94.7%; Pred. No. 45;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAGC 19
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Db 15423 GGGGTCTGTCTGGCTGGGC 15441

RESULT 4
US-10-425-115-134491
; Sequence 134491, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 134491
; LENGTH: 268
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(268)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_54140C.1
US-10-425-115-134491

Query Match 86.3%; Score 16.4; DB 8; Length 268;
Best Local Similarity 94.4%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGAG 18
|||||
DB 153 GGGGCTCTGCTGGCTGAG 170

RESULT 5
US-10-425-115-79824
; Sequence 79824, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 79824
; LENGTH: 374
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_172825C.1
US-10-425-115-79824

Query Match 86.3%; Score 16.4; DB 8; Length 374;
Best Local Similarity 94.4%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGAG 18
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DB 277 GGGGCTCTGCTGGCAGAG 294

RESULT 6
US-09-867-701-8175/c
; Sequence 8175, Application US/09867701
; Patent No. US2002013237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF OVARIAN CANCER

; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8175
; LENGTH: 422
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-8175

Query Match 86.3%; Score 16.4; DB 3; Length 422;
Best Local Similarity 94.4%; Pred. No. 2.8e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGAG 18
|||||
DB 421 GGGGCTCTGCTGGCTGAG 404

RESULT 7
US-10-128-714-7457
; Sequence 7457, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Broshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7457
; LENGTH: 1680
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-7457

Query Match 86.3%; Score 16.4; DB 5; Length 1680;
Best Local Similarity 94.4%; Pred. No. 2.4e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGAG 18
|||||
DB 1561 GGGGCTGAGTCTGGCTGAG 1578

RESULT 8
US-10-128-714-6457
; Sequence 6457, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Broshkin, Alexey M

APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6457
; LENGTH: 1880
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-6457

Query Match 86.3%; Score 16.4; DB 5; Length 1880;
Best Local Similarity 94.4%; Pred. No. 2.3e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTCTGGCTGAG 18
| | | | | | | | | | | | | | | | | | | | | |
Db 1761 GGGGTCAGTCTGGCTGAG 1778

RESULT 9
US-10-450-763-5676/c
; Sequence 5676, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hysseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 5676
; LENGTH: 3763
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (164)..(3109)
; OTHER INFORMATION: 100% homologous to Homo sapiens myosin phosphatase
; OTHER INFORMATION: targeting/regulatory subunit,accession number AB003062,Smith-
; OTHER INFORMATION: Waterman Score=4985.
US-10-450-763-5676

Query Match 86.3%; Score 16.4; DB 9; Length 3763;
Best Local Similarity 94.4%; Pred. No. 2.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTGCTGGCTGAGC 19
| | | | | | | | | | | | | | | | | | | | | |
Db 2353 GGGTTTGTCTGGCTGAGC 2336

RESULT 10

US-10-128-714-5457
; Sequence 5457, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5457
; LENGTH: 3880
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-5457

Query Match 86.3%; Score 16.4; DB 5; Length 3880;
Best Local Similarity 94.4%; Pred. No. 2.1e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTCTGGCTGAG 18
| | | | | | | | | | | | | | | | | | | | | |
Db 2761 GGGGTCAGTCTGGCTGAG 2778

RESULT 11
US-10-205-823-334/c
; Sequence 334, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Wonsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158

```
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 11102
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-205-823-334

Query Match      86.3%; Score 16.4; DB 5; Length 11102;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
    |||||
Db 2334 GGGTTTGTCTGGCTGAGC 2317

RESULT 12
US-10-788-792-18/c
; Sequence 18, Application US/10788792
; Publication No. US20040191819A1
; GENERAL INFORMATION:
; APPLICANT: Bayer Pharmaceuticals Corporation
; APPLICANT: Eveleigh, Deepa
; APPLICANT: Bigwood, Douglas
; TITLE OF INVENTION: EXPRESSION PROFILES FOR BREAST CANCER AND METHODS OF USE
; FILE REFERENCE: 5152
; CURRENT APPLICATION NUMBER: US/10/788,792
; CURRENT FILING DATE: 2004-02-27
; PRIOR APPLICATION NUMBER: US 60/450,655
; PRIOR FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 254
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 11102
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-788-792-18

Query Match      86.3%; Score 16.4; DB 8; Length 11102;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
    |||||
Db 2334 GGGTTTGTCTGGCTGAGC 2317

RESULT 13
US-11-051-454-334/c
; Sequence 334, Application US/11051454
; Publication No. US20050191673A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Wonsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/11/051,454
; CURRENT FILING DATE: 2005-02-04
; PRIOR APPLICATION NUMBER: US/10/205,823
; PRIOR FILING DATE: 2002-07-25
```

```
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 11102
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-051-454-334

Query Match      86.3%; Score 16.4; DB 10; Length 11102;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
    |||||
Db 2334 GGGTTTGTCTGGCTGAGC 2317

RESULT 14
US-10-341-434-130/c
; Sequence 130, Application US/10341434
; Publication No. US20030215835A1
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies
; TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes
; FILE REFERENCE: 9U 204 205 R1
; CURRENT APPLICATION NUMBER: US/10/341,434
; CURRENT FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/348,164
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: US 60/348,119
; PRIOR FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 130
; LENGTH: 11283
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (145)..(3138)
; OTHER INFORMATION:
US-10-341-434-130

Query Match      86.3%; Score 16.4; DB 6; Length 11283;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
    |||||
Db 2334 GGGTTTGTCTGGCTGAGC 2317

RESULT 15
US-10-087-192-211
; Sequence 211, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
```

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; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 211
; LENGTH: 28562
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(28562)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-211

Query Match      86.3%; Score 16.4; DB 5; Length 28562;
Best Local Similarity 94.4%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGAG 18
Db 8021 GAGGTCTGTCTGGCTGAG 8038

RESULT 16
US-10-741-600-17792
; Sequence 17792, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741.600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17792
; LENGTH: 87001
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-17792

Query Match      86.3%; Score 16.4; DB 8; Length 87001;
Best Local Similarity 94.4%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGAG 19
Db 57624 GGGTCTGTCTGGCTGAG 57641

RESULT 17
US-09-925-065A-740811/c
; Sequence 740811, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16

```

```

; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 740811
; LENGTH: 644
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-740811

Query Match      84.2%; Score 16; DB 4; Length 644;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGTCTGGCTGAGC 19
Db 86 GTCTGTCTGGCTGAGC 71

RESULT 18
US-09-835-976B-83
; Sequence 83, Application US/09835976B
; Publication No. US20030027983A1
; GENERAL INFORMATION:
; APPLICANT: Mount, David B.
; APPLICANT: Delpire, Eric
; APPLICANT: Gamba, Gerardo
; APPLICANT: Alfred L. George, Jr.
; TITLE OF INVENTION: PURIFIED AND ISOLATED POTASSIUM-CHLORIDE COTRANSPORTER NUCLEIC AC
; TITLE OF INVENTION: POLYPEPTIDES AND
; TITLE OF INVENTION: THERAPEUTIC AND SCREENING METHODS USING SAME
; FILE REFERENCE: Attorney Docket No. US20030027983A1 1242-26-2
; CURRENT APPLICATION NUMBER: US/09/835,976B
; CURRENT FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 83
; LENGTH: 2168
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-835-976B-83

Query Match      84.2%; Score 16; DB 3; Length 2168;
Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCTGTCTGGCTGAG 18
Db 1286 GGTCTGTCTGGCTGAG 1301

RESULT 19
US-10-322-696-41
; Sequence 41, Application US/10322696
; Publication No. US20040166490A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Malandro, Marc
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER
; FILE REFERENCE: 529452001200
; CURRENT APPLICATION NUMBER: US/10/322,696
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 3170
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-322-696-41

Query Match      84.2%; Score 16; DB 7; Length 3170;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```



```
QY      3 GGTCTGCTGGCTGAG 18
Db      2295 GGTCTGCTGGCTGAG 2310

RESULT 20
US-09-835-976B-1
; Sequence 1, Application US/09835976B
; Publication No. US20030027983A1
; GENERAL INFORMATION:
; APPLICANT: Mount, David B.
; APPLICANT: Delpire, Eric
; APPLICANT: Gamba, Gerardo
; APPLICANT: Alfred L. George, Jr.
; TITLE OF INVENTION: PURIFIED AND ISOLATED POTASSIUM-CHLORIDE COTRANSPORTER NUCLEIC ACIDS
; TITLE OF INVENTION: POLYPEPTIDES AND
; TITLE OF INVENTION: THERAPEUTIC AND SCREENING METHODS USING SAME
; FILE REFERENCE: Attorney Docket No. US20030027983A1 1242-26-2
; CURRENT APPLICATION NUMBER: US/09/835,976B
; CURRENT FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 5239
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(3253)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (161)
; OTHER INFORMATION: n=a or c, Xaa=Leu or Ile
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (260)
; OTHER INFORMATION: n=a or t, Xaa=Leu or Ile
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3086)
; OTHER INFORMATION: n=a or c, Xaa=Leu or Ile
US-09-835-976B-1

Query Match      84.2%; Score 16; DB 3; Length 5239;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGAG 18
Db      4357 GGTCTGCTGGCTGAG 4372

RESULT 21
US-10-276-774-971
; Sequence 971, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tang, Y, Tom et al
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER
; FILE REFERENCE: 529452001200
; CURRENT APPLICATION NUMBER: US/10/276,774
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 971
; LENGTH: 5261
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
US-10-276-774-971

Query Match      84.2%; Score 16; DB 7; Length 5261;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGAG 18
Db      4376 GGTCTGCTGGCTGAG 4391

RESULT 22
US-09-764-872-864/c
; Sequence 864, Application US/09764872
; Publication No. US20030050231A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P125
; CURRENT APPLICATION NUMBER: US/09/764,872
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 957
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 864
; LENGTH: 7275
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-872-864
```

```
Query Match      84.2%; Score 16; DB 3; Length 7275;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGAG 18
Db      888 GGTCTGCTGGCTGAG 873
```

```
RESULT 23
US-10-322-696-40
; Sequence 40, Application US/10322696
; Publication No. US20040166490A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Malandro, Marc
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER
; FILE REFERENCE: 529452001200
; CURRENT APPLICATION NUMBER: US/10/322,696
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 32351
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(32351)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-696-40
```

```
Query Match      84.2%; Score 16; DB 7; Length 32351;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGAG 18
Db      21476 GGTCTGCTGGCTGAG 21491
```

RESULT 24

```
US-11-036-317-195529/c
; Sequence 195529, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 911174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 195529
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-195529

Query Match      83.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 7.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
Db 20 GGACTCTGTCTGGCTGAGC 2

RESULT 25
US-11-036-317-314563/c
; Sequence 314563, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 911174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 314563
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-314563

Query Match      83.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 7.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
Db 19 GGACTCTGTCTGGCTGAGC 1

RESULT 26
US-10-437-963-26474
; Sequence 26474, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
```

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; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 26474
; LENGTH: 446
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_31260C.1
US-10-437-963-26474

Query Match      83.2%; Score 15.8; DB 7; Length 446;
Best Local Similarity 89.5%; Pred. No. 5.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
Db 79 GGGGTCTGTCTGGGAGC 97

RESULT 27
US-09-925-065A-529831/c
; Sequence 529831, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 529831
; LENGTH: 483
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-529831

Query Match      83.2%; Score 15.8; DB 4; Length 483;
Best Local Similarity 89.5%; Pred. No. 5.3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
Db 296 GAGGTCTGTCTGGCTGAGC 278

RESULT 28
US-09-925-065A-25140/c
; Sequence 25140, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
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; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; CURRENT APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25140
; LENGTH: 562
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-25140

Query Match      83.2%; Score 15.8; DB 4; Length 562;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGAGC 19
   |||||||
Db 559 GGTGTCTGTCTGCTGAGC 541

RESULT 29
US-10-972-079-17638/c
; Sequence 17638, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; PRIOR FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17638
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894225956_1
US-10-972-079-17638

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGAGC 19
   |||||||
Db 236 GGGGTCTGTTTGGCTCAGC 218

RESULT 30
US-10-972-079-17639/c
; Sequence 17639, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; PRIOR FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17638
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894225956_1
US-10-972-079-17638

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGAGC 19
   |||||||
Db 236 GGGGTCTGTTTGGCTCAGC 218

RESULT 31
US-10-972-079-20707/c
; Sequence 20707, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; PRIOR FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20707
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894231510_8
US-10-972-079-20707

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGAGC 19
   |||||||
Db 148 GGGGTCTGTTTGGCTCAGC 130

RESULT 32
US-10-027-632-22844
; Sequence 22844, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; TITLE OF INVENTION: Polymorphisms in the Human Genome
```

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; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17639
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894225956_2
US-10-972-079-17639

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGAGC 19
   |||||||
Db 148 GGGGTCTGTTTGGCTCAGC 130

RESULT 31
US-10-972-079-20707/c
; Sequence 20707, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20707
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894231510_8
US-10-972-079-20707

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGAGC 19
   |||||||
Db 90 GAGGTCTGTCAGCTGAGC 72

RESULT 32
US-10-027-632-22844
; Sequence 22844, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; TITLE OF INVENTION: Polymorphisms in the Human Genome
```

```
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22844
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22844

Query Match      83.2%; Score 15.8; DB 5; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGCTCTGCTGGCTGAGC 19
      ||| ||||| ||||| |||
Db      270 GGGCTCTGCTGGCTCAGC 288

RESULT 33
US-10-027-632-22845
; Sequence 22845, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 5; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGCTCTGCTGGCTGAGC 19
      ||| ||||| ||||| |||
Db      270 GGGCTCTGCTGGCTCAGC 288

RESULT 34
US-10-027-632-22844
; Sequence 22844, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 5; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGCTCTGCTGGCTGAGC 19
      ||| ||||| ||||| |||
Db      270 GGGCTCTGCTGGCTCAGC 288

RESULT 35
US-10-027-632-22845
; Sequence 22845, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 6; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCTGTCTGGCTGAGC 19
      ||| ||| ||| ||| ||| ||| |||
Db     270 GGGGTCTGTCTGGCTCAGC 288

RESULT 36
US-10-302-172-408
; Sequence 408, Application US/10302172
; Publication No. US20040053250A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Drmanac, Radje T.
; TITLE OF INVENTION: No. US20040053250A1 Arginine-rich Protein-like Nucleic Acids ar
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 803 1CNCp
; CURRENT APPLICATION NUMBER: US/10/302,172
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/225,251
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: PCT US02/05095
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/799,451
; PRIOR FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 950
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 408
; LENGTH: 687
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (22)..(489)
US-10-302-172-408

Query Match      83.2%; Score 15.8; DB 7; Length 687;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGTCTGTCTGGCTGAGC 19
      ||| ||| ||| ||| ||| ||| |||
Db     196 GGGGTCTGTCTGGCTGAGC 214

RESULT 37
US-10-027-632-283313/c
; Sequence 283313, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-09-28
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 283313
; LENGTH: 719
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-283313

Query Match      83.2%; Score 15.8; DB 6; Length 719;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGTCTGTCTGGCTGAGC 19
      ||| ||| ||| ||| ||| ||| |||
Db     530 GAGGTTTGTCTGGCTGAGC 512

RESULT 39
US-10-027-632-149183
; Sequence 149183, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-09-28
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 283313
```

; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149183
; LENGTH: 740
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-149183

Query Match 83.2%; Score 15.8; DB 5; Length 740;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTCTGCTGGCTGAGC 19
||| ||||| ||||| |||||
Db 280 GGGCTCTGCTGGCTCAGC 298

RESULT 40
US-10-027-632-149183
; Sequence 149183, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149183
; LENGTH: 740
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-149183

Query Match 83.2%; Score 15.8; DB 6; Length 740;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTCTGCTGGCTGAGC 19
||| ||||| ||||| |||||
Db 280 GGGCTCTGCTGGCTCAGC 298

RESULT 41
US-09-815-242-7949
; Sequence 7949, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7949
; LENGTH: 801
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(801)
US-09-815-242-7949

Query Match 83.2%; Score 15.8; DB 3; Length 801;
Best Local Similarity 89.5%; Pred. No. 5e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTCTGCTGGCTGAGC 19
||| ||||| ||||| |||||
Db 346 GGGGCTCTGCTGGCTGAGC 364

RESULT 42
US-10-282-122A-30532
; Sequence 30532, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30532
; LENGTH: 801
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-30532

Query Match 83.2%; Score 15.8; DB 7; Length 801;
Best Local Similarity 89.5%; Pred. No. 5e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGAGC 19
|||||
Db 346 GGGGCTGCTGCTGGCGGAGC 364
|||||

RESULT 43
US-10-369-493-34166
; Sequence 34166, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 34166
; LENGTH: 829
; TYPE: DNA
; ORGANISM: Sphingomonas aromaticivorans
US-10-369-493-34166

Query Match 83.2%; Score 15.8; DB 6; Length 829;
Best Local Similarity 89.5%; Pred. No. 5e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGAGC 19
|||||
Db 225 GGGGCTGCTGCTGGCTGGGC 243
|||||

RESULT 44
US-10-798-084-2/c
; Sequence 2, Application US/10798084
; Publication No. US20040152144A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susan
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Herve

; TITLE OF INVENTION: A Novel Method of Diagnosing, Monitoring, Staging,
; FILE REFERENCE: DEX-0085
; CURRENT APPLICATION NUMBER: US/10/798,084
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US/09/664,249
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US99/16811
; PRIOR FILING DATE: 1999-07-22
; PRIOR APPLICATION NUMBER: 60/095,232
; PRIOR FILING DATE: 1998-08-04
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1066
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (729)..(813)
; OTHER INFORMATION: a, c, g or t
US-10-798-084-2

Query Match 83.2%; Score 15.8; DB 7; Length 1066;
Best Local Similarity 89.5%; Pred. No. 4.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGAGC 19
|||||
Db 530 GGGGCTGCTGCTGGCTCAGC 512
|||||

RESULT 45
US-10-936-626-72/c
; Sequence 72, Application US/10936626
; Publication No. US20050106644A1
; GENERAL INFORMATION:
; APPLICANT: Cairns, Belinda
; APPLICANT: Chen, Ruihuan
; APPLICANT: Frantz, Gretchen
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Koepfen, Hartmut
; APPLICANT: Phillips, Heidi S.
; APPLICANT: Polakis, Paul
; APPLICANT: Spencer, Susan D.
; APPLICANT: Smith, Victoria
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wu, Thomas D.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Compositions and Methods for the Diagnosis and
; FILE REFERENCE: P5001R1P1
; CURRENT APPLICATION NUMBER: US/10/936,626
; CURRENT FILING DATE: 2004-09-08
; PRIOR APPLICATION NUMBER: US 10/872,991
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 10/872,972
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 10/241,220
; PRIOR FILING DATE: 2002-09-11
; PRIOR APPLICATION NUMBER: US 10/177,488
; PRIOR FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: US 60/299,500
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 60/301,880
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/323,268
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US 60/557,116
; PRIOR FILING DATE: 2004-03-26
; PRIOR APPLICATION NUMBER: US 60/598,899
; PRIOR FILING DATE: 2004-08-04
; NUMBER OF SEQ ID NOS: 154

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; SEQ ID NO 72
; LENGTH: 1191
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-936-626-72

Query Match      83.2%; Score 15.8; DB 9; Length 1191;
Best Local Similarity 89.5%; Pred. No. 4.8e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGGTCGTCTGGCTGAGC 19
        ||||| ||||| |||||
Db      655 GGGGTCCTTCTGGCTCAGC 637

RESULT 46
US-10-938-061-72/c
; Sequence 72, Application US/10938061
; Publication No. US20050107595A1
; GENERAL INFORMATION:
; APPLICANT: Cairns, Belinda
; APPLICANT: Chen, Rulhuan
; APPLICANT: Frantz, Gretchen
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Koepfen, Hartmut
; APPLICANT: Phillips, Heidi S.
; APPLICANT: Polakis, Paul
; APPLICANT: Spencer, Susan D.
; APPLICANT: Smith, Victoria
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wu, Thomas D.
; APPLICANT: Zhang, Zemin
; APPLICANT: Sakanaka, Chie
; APPLICANT: Chuntharapai, Anan
; APPLICANT: Reed Chae J.
; TITLE OF INVENTION: Compositions and Methods for the Diagnosis and
; TREATMENT OF Tumor
; FILE REFERENCE: P5001R1P1B
; CURRENT APPLICATION NUMBER: US/10/938,061
; CURRENT FILING DATE: 2004-09-10
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 10/872,991
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 10/241,220
; PRIOR FILING DATE: 2002-09-11
; PRIOR APPLICATION NUMBER: US 10/177,488
; PRIOR FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: US 60/299,500
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 60/301,880
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/323,269
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US 60/557,116
; PRIOR FILING DATE: 2004-03-26
; PRIOR APPLICATION NUMBER: US 60/598,899
; PRIOR FILING DATE: 2004-08-04
; NUMBER OF SEQ ID NOS: 154
; SEQ ID NO 72
; LENGTH: 1191
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-938-061-72

Query Match      83.2%; Score 15.8; DB 9; Length 1191;
Best Local Similarity 89.5%; Pred. No. 4.8e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGGTCGTCTGGCTGAGC 19
        ||||| ||||| |||||
Db      655 GGGGTCCTTCTGGCTCAGC 637

; SEQ ID NO 72
; LENGTH: 1191
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-936-626-72

Query Match      83.2%; Score 15.8; DB 9; Length 1191;
Best Local Similarity 89.5%; Pred. No. 4.8e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGGTCGTCTGGCTGAGC 19
        ||||| ||||| |||||
Db      655 GGGGTCCTTCTGGCTCAGC 637

RESULT 47
US-10-037-270-142/c
; Sequence 142, Application US/10037270
; Publication No. US20030104529A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Felyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: Tillinghast, John
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030104529A1e1 Nucleic Acids and
; POLYPEPTIDES
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/10/037,270
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1104
; SOFTWARE: Pf-Fl_Genes Version 1.0
; SEQ ID NO 142
; LENGTH: 1510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(884)
US-10-037-270-142

Query Match      83.2%; Score 15.8; DB 5; Length 1510;
Best Local Similarity 89.5%; Pred. No. 4.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGGTCGTCTGGCTGAGC 19
        ||||| ||||| |||||
Db      104 GGGGTCGTCTGGCTGAGC 86

RESULT 48
US-10-117-722-142/c
; Sequence 142, Application US/10117722
; Publication No. US20030219744A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030219744A1e1 Nucleic Acids and
; POLYPEPTIDES
; FILE REFERENCE: 784CIP2BCIP
; CURRENT APPLICATION NUMBER: US/10/117,722
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/620,312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
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; NUMBER OF SEQ ID NOS: 1104
; SOFTWARE: pc_fl_genes Version 1.0
; SEQ ID NO 142
; LENGTH: 1510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(884)
US-10-117-722-142

Query Match 83.2%; Score 15.8; DB 6; Length 1510;
Best Local Similarity 89.5%; Pred. No. 4.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGGTGAGC 19
|||
Db 104 GGGGTCTGTCTGGGTGAGC 86

RESULT 49

US-10-122-851-142/c
; Sequence 142, Application US/10122851
; Publication No. US20050239060A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and
; FILE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2BDV3
; CURRENT APPLICATION NUMBER: US/10/122,851
; CURRENT FILING DATE: 2002-04-12
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/620,312
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1104
; SOFTWARE: pc_fl_genes Version 1.0
; SEQ ID NO 142
; LENGTH: 1510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(884)
US-10-122-851-142

Query Match 83.2%; Score 15.8; DB 9; Length 1510;
Best Local Similarity 89.5%; Pred. No. 4.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGGTGAGC 19
|||
Db 104 GGGGTCTGTCTGGGTGAGC 86

RESULT 50

US-09-925-065A-546490
; Sequence 546490, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 546490
; LENGTH: 1577
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-546490

Query Match 83.2%; Score 15.8; DB 4; Length 1577;
Best Local Similarity 89.5%; Pred. No. 4.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGGTGAGC 19
|||
Db 148 GGGGTCTGTGGGTGAGC 166

Search completed: January 11, 2006, 04:37:54
Job time : 400.495 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 385.949 Seconds
(without alignments)
39.844 Million cell updates/sec

Title: US-09-869-169C-12

Perfect score: 19

Sequence: 1 999gtctgtgctgagc 19

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications NA.New.*

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- 2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
- 9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
- 10: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	15.8	83.2	1606	6	US-10-750-185-43749 Sequence 43749, A
2	15.8	83.2	1606	6	US-10-750-623-43749 Sequence 43749, A
3	15.8	83.2	164527	7	US-11-121-086-71 Sequence 71, Appl
4	15.4	81.1	1460	6	US-10-750-185-32137 Sequence 32137, A
5	15.4	81.1	1460	6	US-10-750-623-32137 Sequence 32137, A
6	15	78.9	201	6	US-10-995-561-13370 Sequence 13370, A
7	15	78.9	992	6	US-10-750-185-55529 Sequence 55529, A
8	15	78.9	992	6	US-10-750-623-55529 Sequence 55529, A
9	15	78.9	1416	6	US-10-995-561-511 Sequence 511, Appl
10	15	78.9	1507	6	US-10-995-561-512 Sequence 511, Appl
11	15	78.9	5841	7	US-11-136-527-676 Sequence 676, Appl
12	15	78.9	14271	6	US-10-995-561-13370 Sequence 13370, A
13	15	78.9	14769	6	US-10-995-561-13507 Sequence 13507, A
14	15	78.9	40000	6	US-10-995-561-13510 Sequence 13510, A
15	15	78.9	57073	6	US-10-995-561-13275 Sequence 13275, A
16	14.8	77.9	26	6	US-10-310-914A-166285 Sequence 166285, A
17	14.8	77.9	201	6	US-10-995-561-81215 Sequence 81215, A
18	14.8	77.9	201	6	US-10-995-561-81293 Sequence 81293, A
19	14.8	77.9	201	6	US-10-995-561-81570 Sequence 81570, A
20	14.8	77.9	201	6	US-10-995-561-81629 Sequence 81629, A
21	14.8	77.9	201	6	US-10-995-561-81629 Sequence 81629, A
22	14.8	77.9	600	7	US-11-136-527-7822 Sequence 7822, Appl
23	14.8	77.9	780	6	US-10-453-372-815 Sequence 815, Appl

C 97	14.2	74.7	2642	6	US-10-750-185-44717	Sequence 44717, A	C 170	13.8	72.6	201	6	US-10-995-561-71744	Sequence 71744, A
C 98	14.2	74.7	2642	6	US-10-750-623-44717	Sequence 44717, A	C 171	13.8	72.6	201	6	US-10-995-561-71755	Sequence 71755, A
C 99	14.2	74.7	2652	6	US-10-750-185-45799	Sequence 45799, A	C 172	13.8	72.6	201	6	US-10-995-561-71781	Sequence 71781, A
C 100	14.2	74.7	2652	6	US-10-750-623-45799	Sequence 45799, A	C 173	13.8	72.6	201	6	US-10-995-561-71807	Sequence 71807, A
C 101	14.2	74.7	2754	6	US-10-947-249-161	Sequence 161, App	C 174	13.8	72.6	201	6	US-10-995-561-81157	Sequence 81157, A
C 102	14.2	74.7	2992	7	US-11-136-527-4047	Sequence 4047, App	C 175	13.8	72.6	201	6	US-10-995-561-81582	Sequence 81582, A
C 103	14.2	74.7	3018	6	US-10-750-185-60261	Sequence 60261, A	C 176	13.8	72.6	201	7	US-11-124-368A-3179	Sequence 3179, App
C 104	14.2	74.7	3018	6	US-10-750-623-60261	Sequence 60261, A	C 177	13.8	72.6	201	7	US-11-124-368A-11035	Sequence 11035, A
C 105	14.2	74.7	3297	7	US-11-027-964-1	Sequence 1, Appli	C 178	13.8	72.6	201	7	US-11-124-368A-20307	Sequence 20307, A
C 106	14.2	74.7	4457	6	US-10-775-169-259	Sequence 169, App	C 179	13.8	72.6	684	6	US-10-948-429A-5	Sequence 5, Appli
C 107	14.2	74.7	5331	7	US-11-136-527-2528	Sequence 2528, App	C 180	13.8	72.6	785	6	US-10-750-185-38882	Sequence 38882, A
C 108	14.2	74.7	5468	6	US-10-821-234-49	Sequence 49, Appl	C 181	13.8	72.6	765	6	US-10-750-623-38882	Sequence 38882, A
C 109	14.2	74.7	8275	7	US-11-136-527-1981	Sequence 1981, App	C 182	13.8	72.6	783	6	US-10-750-185-64533	Sequence 64533, A
C 110	14.2	74.7	13672	7	US-11-055-035-2	Sequence 2, Appli	C 183	13.8	72.6	836	6	US-10-750-623-64533	Sequence 64533, A
C 111	14.2	74.7	21777	7	US-11-027-964-2	Sequence 2, Appli	C 184	13.8	72.6	836	6	US-10-750-185-28171	Sequence 28171, A
C 112	14.2	74.7	21963	6	US-10-995-561-13297	Sequence 13297, A	C 185	13.8	72.6	836	6	US-10-750-623-28171	Sequence 28171, A
C 113	14.2	74.7	63984	7	US-11-121-086-26	Sequence 26, Appl	C 186	13.8	72.6	932	6	US-10-750-185-60360	Sequence 60360, A
C 114	14.2	74.7	86081	6	US-10-995-561-13246	Sequence 13246, A	C 187	13.8	72.6	932	6	US-10-750-623-60360	Sequence 60360, A
C 115	14.2	74.7	88421	7	US-11-205-109-1	Sequence 1, Appli	C 188	13.8	72.6	977	6	US-10-750-185-38783	Sequence 38783, A
C 116	14.2	74.7	100000	7	US-11-124-368A-2899	Sequence 2899, App	C 189	13.8	72.6	977	6	US-10-750-623-38783	Sequence 38783, A
C 117	14.2	74.7	120096	7	US-11-121-086-24	Sequence 24, Appl	C 190	13.8	72.6	1023	6	US-10-750-185-36685	Sequence 36685, A
C 118	14.2	74.7	153376	7	US-11-121-086-5	Sequence 5, Appli	C 191	13.8	72.6	1023	6	US-10-750-623-36685	Sequence 36685, A
C 119	14.2	74.7	157224	7	US-11-112-308-51	Sequence 51, Appl	C 192	13.8	72.6	1028	6	US-10-750-185-39409	Sequence 39409, A
C 120	14.2	74.7	163162	7	US-11-121-086-66	Sequence 66, Appl	C 193	13.8	72.6	1028	6	US-10-750-623-39409	Sequence 39409, A
C 121	14.2	74.7	169725	7	US-11-121-086-63	Sequence 63, Appl	C 194	13.8	72.6	1038	6	US-10-750-185-38231	Sequence 38231, A
C 122	14.2	74.7	170189	7	US-11-112-308-50	Sequence 50, Appl	C 195	13.8	72.6	1038	6	US-10-750-623-38231	Sequence 38231, A
C 123	14.2	74.7	170837	7	US-11-121-086-97	Sequence 97, Appl	C 196	13.8	72.6	1374	6	US-10-750-185-51706	Sequence 51706, A
C 124	14.2	74.7	172543	7	US-11-121-086-6	Sequence 6, Appli	C 197	13.8	72.6	1374	6	US-10-750-623-51706	Sequence 51706, A
C 125	14.2	74.7	380749	6	US-10-995-561-13216	Sequence 13216, A	C 198	13.8	72.6	1386	6	US-10-750-185-28197	Sequence 28197, A
C 126	14	73.7	19	9	US-11-101-244-552646	Sequence 552646, A	C 199	13.8	72.6	1386	6	US-10-750-623-28197	Sequence 28197, A
C 127	14	73.7	23	6	US-11-083-784-552646	Sequence 961492, A	C 200	13.8	72.6	1481	6	US-10-750-185-39254	Sequence 39254, A
C 128	14	73.7	23	6	US-10-310-914A-961492	Sequence 961492, A	C 201	13.8	72.6	1481	6	US-10-750-623-39254	Sequence 39254, A
C 129	14	73.7	25	7	US-11-121-849-180814	Sequence 180814, A	C 202	13.8	72.6	1486	6	US-10-750-185-38565	Sequence 38565, A
C 130	14	73.7	25	7	US-11-121-849-289285	Sequence 289285, A	C 203	13.8	72.6	1486	6	US-10-750-623-38565	Sequence 38565, A
C 131	14	73.7	25	7	US-11-121-849-564974	Sequence 564974, A	C 204	13.8	72.6	1506	6	US-10-966-483-21	Sequence 21, Appl
C 132	14	73.7	25	7	US-11-121-849-564975	Sequence 564975, A	C 205	13.8	72.6	1506	7	US-11-021-441-5	Sequence 5, Appli
C 133	14	73.7	25	7	US-11-121-849-564976	Sequence 564976, A	C 206	13.8	72.6	1528	7	US-11-136-527-2678	Sequence 2678, App
C 134	14	73.7	25	7	US-11-121-849-565548	Sequence 565548, A	C 207	13.8	72.6	1537	6	US-10-750-185-56129	Sequence 56129, A
C 135	14	73.7	25	7	US-11-121-849-565549	Sequence 565549, A	C 208	13.8	72.6	1537	6	US-10-750-185-56129	Sequence 56129, A
C 136	14	73.7	25	7	US-11-121-849-565550	Sequence 565550, A	C 209	13.8	72.6	1606	6	US-10-750-623-56129	Sequence 56129, A
C 137	14	73.7	25	7	US-11-121-849-565551	Sequence 565551, A	C 210	13.8	72.6	1606	6	US-10-750-185-43749	Sequence 43749, A
C 138	14	73.7	25	7	US-11-121-849-565552	Sequence 565552, A	C 211	13.8	72.6	1629	7	US-11-103-957-60	Sequence 60, Appl
C 139	14	73.7	25	7	US-11-121-849-565553	Sequence 565553, A	C 212	13.8	72.6	1650	7	US-11-103-957-75	Sequence 75, Appl
C 140	14	73.7	25	7	US-11-121-849-565554	Sequence 565554, A	C 213	13.8	72.6	1689	6	US-10-966-483-24	Sequence 24, Appl
C 141	14	73.7	25	7	US-11-136-527-233737	Sequence 233737, A	C 214	13.8	72.6	1689	7	US-11-021-441-8	Sequence 8, Appli
C 142	14	73.7	600	7	US-11-136-527-4948	Sequence 4948, App	C 215	13.8	72.6	1787	6	US-10-750-185-25467	Sequence 25467, A
C 143	14	73.7	617	7	US-11-136-527-852	Sequence 852, App	C 216	13.8	72.6	1787	6	US-10-750-623-25467	Sequence 25467, A
C 144	14	73.7	948	6	US-10-750-185-56254	Sequence 56254, A	C 217	13.8	72.6	1802	6	US-10-750-185-48452	Sequence 48452, A
C 145	14	73.7	948	6	US-10-750-623-56254	Sequence 56254, A	C 218	13.8	72.6	1802	6	US-10-750-623-48452	Sequence 48452, A
C 146	14	73.7	1068	6	US-10-750-185-43744	Sequence 43744, A	C 219	13.8	72.6	1827	6	US-10-750-185-61401	Sequence 61401, A
C 147	14	73.7	1068	6	US-10-750-623-43744	Sequence 43744, A	C 220	13.8	72.6	1827	6	US-10-750-623-61401	Sequence 61401, A
C 148	14	73.7	1344	6	US-10-750-185-61704	Sequence 61704, A	C 221	13.8	72.6	1835	6	US-10-750-185-58591	Sequence 58591, A
C 149	14	73.7	1344	6	US-10-750-623-61704	Sequence 61704, A	C 222	13.8	72.6	1835	6	US-10-750-623-58591	Sequence 58591, A
C 150	14	73.7	1619	6	US-10-750-185-34411	Sequence 34411, A	C 223	13.8	72.6	1885	6	US-10-750-185-47018	Sequence 47018, A
C 151	14	73.7	1619	6	US-10-750-623-34411	Sequence 34411, A	C 224	13.8	72.6	1885	6	US-10-750-623-47018	Sequence 47018, A
C 152	14	73.7	1678	6	US-10-750-185-43745	Sequence 43745, A	C 225	13.8	72.6	2031	6	US-10-750-185-40715	Sequence 40715, A
C 153	14	73.7	1678	6	US-10-750-623-43745	Sequence 43745, A	C 226	13.8	72.6	2031	6	US-10-750-623-40715	Sequence 40715, A
C 154	14	73.7	2919	6	US-10-955-054A-180	Sequence 180, App	C 227	13.8	72.6	2111	6	US-10-947-249-8	Sequence 8, Appli
C 155	14	73.7	3137	6	US-10-750-185-61405	Sequence 61405, A	C 228	13.8	72.6	2111	6	US-10-836-390-1	Sequence 1, Appli
C 156	14	73.7	3137	6	US-10-750-623-61405	Sequence 61405, A	C 229	13.8	72.6	2148	6	US-10-750-185-59728	Sequence 59728, A
C 157	14	73.7	3137	6	US-11-176-253-1	Sequence 1, Appli	C 230	13.8	72.6	2148	6	US-10-750-623-59728	Sequence 59728, A
C 158	14	73.7	79528	6	US-10-276-233A-6	Sequence 6, Appli	C 231	13.8	72.6	2178	6	US-10-775-169-205	Sequence 205, App
C 159	14	73.7	212716	7	US-11-121-086-95	Sequence 95, Appl	C 232	13.8	72.6	2259	6	US-10-750-185-62051	Sequence 62051, A
C 160	13.8	72.6	25	7	US-11-121-086-95	Sequence 323391, A	C 233	13.8	72.6	2259	6	US-10-750-623-62051	Sequence 62051, A
C 161	13.8	72.6	25	7	US-11-121-849-344763	Sequence 344763, A	C 234	13.8	72.6	2347	6	US-11-000-688-574	Sequence 574, App
C 162	13.8	72.6	25	7	US-11-121-849-344763	Sequence 344763, A	C 235	13.8	72.6	2427	6	US-10-995-561-279	Sequence 279, App
C 163	13.8	72.6	201	6	US-10-995-561-62009	Sequence 62009, A	C 236	13.8	72.6	2560	6	US-10-750-185-47597	Sequence 47597, A
C 164	13.8	72.6	201	6	US-10-995-561-62030	Sequence 62030, A	C 237	13.8	72.6	2560	6	US-10-750-623-47597	Sequence 47597, A
C 165	13.8	72.6	201	6	US-10-995-561-62030	Sequence 62030, A	C 238	13.8	72.6	2883	6	US-10-750-185-48505	Sequence 48505, A
C 166	13.8	72.6	201	6	US-10-995-561-62124	Sequence 62124, A	C 239	13.8	72.6	2883	6	US-10-750-623-48505	Sequence 48505, A
C 167	13.8	72.6	201	6	US-10-995-561-62169	Sequence 62169, A	C 240	13.8	72.6	3105	6	US-10-966-483-19	Sequence 19, Appl
C 168	13.8	72.6	201	6	US-10-995-561-68127	Sequence 68127, A	C 241	13.8	72.6	3105	6	US-10-750-623-68127	Sequence 68127, A
C 169	13.8	72.6	201	6	US-10-995-561-68147	Sequence 68147, A	C 242	13.8	72.6	3183	6	US-11-021-441-3	Sequence 3, Appli
C 170	13.8	72.6	201	6	US-10-995-561-68169	Sequence 68169, A	C 243	13.8	72.6	3183	6	US-10-750-185-27999	Sequence 27999, A

C 243	13.8	72.6	3183	6	US-10-750-623-27999	Sequence 27999, A	316	13.4	70.5	592	6	US-10-496-711-7	Sequence 7, Appli
C 244	13.8	72.6	3237	6	US-10-420-192-5	Sequence 5, Appli	317	13.4	70.5	598	6	US-10-750-185-1947	Sequence 1947, Ap
C 245	13.8	72.6	3407	7	US-11-124-368A-2	Sequence 2, Appli	318	13.4	70.5	598	6	US-10-750-185-2271	Sequence 2271, Ap
C 246	13.8	72.6	3467	6	US-10-750-185-60234	Sequence 60234, A	319	13.4	70.5	598	6	US-10-750-623-1947	Sequence 1947, Ap
C 247	13.8	72.6	3467	6	US-10-750-623-60234	Sequence 60234, A	320	13.4	70.5	598	6	US-10-750-623-2271	Sequence 2271, Ap
C 248	13.8	72.6	3963	6	US-10-966-483-1	Sequence 1, Appli	321	13.4	70.5	600	6	US-10-750-185-1912	Sequence 1912, Ap
C 249	13.8	72.6	5286	6	US-10-955-054A-61	Sequence 61, Appli	322	13.4	70.5	600	6	US-10-750-185-19746	Sequence 19746, A
C 250	13.8	72.6	7893	7	US-11-186-731-3	Sequence 3, Appli	323	13.4	70.5	600	6	US-10-750-185-19817	Sequence 19817, A
C 251	13.8	72.6	8106	7	US-11-186-731-1	Sequence 1, Appli	324	13.4	70.5	600	6	US-10-750-623-1912	Sequence 1912, Ap
C 252	13.8	72.6	8911	7	US-11-136-527-616	Sequence 616, App	325	13.4	70.5	600	6	US-10-750-623-19746	Sequence 19746, A
C 253	13.8	72.6	12152	6	US-11-124-368A-2929	Sequence 2929, Ap	326	13.4	70.5	600	7	US-11-136-527-7583	Sequence 7583, Ap
C 254	13.8	72.6	12387	6	US-10-770-726-33	Sequence 33, Appli	327	13.4	70.5	614	6	US-10-750-185-26675	Sequence 26675, A
C 255	13.8	72.6	18171	7	US-11-136-527-3735	Sequence 3735, Ap	328	13.4	70.5	614	6	US-10-750-623-26675	Sequence 26675, A
C 256	13.8	72.6	19104	6	US-10-995-561-13425	Sequence 13425, A	329	13.4	70.5	614	6	US-10-750-623-26675	Sequence 26675, A
C 257	13.8	72.6	21166	6	US-10-995-561-13398	Sequence 13398, A	330	13.4	70.5	692	6	US-10-750-185-39713	Sequence 39713, A
C 258	13.8	72.6	23907	7	US-11-186-731-6	Sequence 6, Appli	331	13.4	70.5	692	6	US-10-750-623-39713	Sequence 39713, A
C 259	13.8	72.6	24120	7	US-11-186-731-4	Sequence 4, Appli	332	13.4	70.5	700	6	US-10-750-185-27260	Sequence 27260, A
C 260	13.8	72.6	43975	6	US-10-995-561-13379	Sequence 13379, A	333	13.4	70.5	700	6	US-10-750-623-27260	Sequence 27260, A
C 261	13.8	72.6	54767	6	US-10-995-561-13357	Sequence 13357, A	334	13.4	70.5	821	6	US-10-750-185-25680	Sequence 25680, A
C 262	13.8	72.6	57489	6	US-10-927-466-100	Sequence 100, App	335	13.4	70.5	821	6	US-10-750-623-25680	Sequence 25680, A
C 263	13.8	72.6	67467	7	US-11-124-368A-2889	Sequence 2889, Ap	336	13.4	70.5	889	6	US-10-750-185-31314	Sequence 31314, A
C 264	13.8	72.6	90572	7	US-11-124-368A-2900	Sequence 2900, Ap	337	13.4	70.5	889	6	US-10-750-623-31314	Sequence 31314, A
C 265	13.8	72.6	100000	7	US-11-124-368A-2881	Sequence 2881, Ap	338	13.4	70.5	1076	7	US-11-055-822-263	Sequence 263, App
C 266	13.8	72.6	156297	7	US-11-121-086-65	Sequence 65, Appli	339	13.4	70.5	1106	6	US-10-750-185-57353	Sequence 57353, A
C 267	13.8	72.6	157224	7	US-11-112-908-51	Sequence 51, Appli	340	13.4	70.5	1106	6	US-10-750-623-57353	Sequence 57353, A
C 268	13.8	72.6	167116	7	US-11-121-086-44	Sequence 44, Appli	341	13.4	70.5	1111	6	US-10-750-185-43312	Sequence 43312, A
C 269	13.8	72.6	170189	7	US-11-112-908-50	Sequence 50, Appli	342	13.4	70.5	1111	6	US-10-750-623-43312	Sequence 43312, A
C 270	13.8	72.6	172147	7	US-11-112-908-22	Sequence 22, Appli	343	13.4	70.5	1131	6	US-10-750-185-50057	Sequence 50057, A
C 271	13.8	72.6	173115	7	US-11-112-908-65	Sequence 65, Appli	344	13.4	70.5	1131	6	US-10-750-623-50057	Sequence 50057, A
C 272	13.8	72.6	188682	7	US-11-112-908-23	Sequence 23, Appli	345	13.4	70.5	1133	6	US-10-750-185-43053	Sequence 43053, A
C 273	13.8	72.6	197096	7	US-11-121-086-107	Sequence 107, App	346	13.4	70.5	1133	6	US-10-750-623-43053	Sequence 43053, A
C 274	13.8	72.6	207835	7	US-11-121-086-39	Sequence 39, Appli	347	13.4	70.5	1224	7	US-11-055-822-261	Sequence 261, App
C 275	13.8	72.6	207835	7	US-11-121-086-40	Sequence 40, Appli	348	13.4	70.5	1236	6	US-10-750-185-45099	Sequence 45099, A
C 276	13.8	72.6	207908	7	US-11-112-908-21	Sequence 21, Appli	349	13.4	70.5	1236	6	US-10-750-623-45099	Sequence 45099, A
C 277	13.8	72.6	285300	6	US-10-857-780-6	Sequence 6, Appli	350	13.4	70.5	1400	7	US-11-136-527-7644	Sequence 7644, Ap
C 278	13.8	72.6	380749	6	US-10-995-561-13216	Sequence 13216, A	351	13.4	70.5	1422	6	US-10-750-185-41684	Sequence 41684, A
C 279	13.4	70.5	17	6	US-10-995-561-85300	Sequence 85300, A	352	13.4	70.5	1422	6	US-10-750-623-41684	Sequence 41684, A
C 280	13.4	70.5	19	8	US-11-101-244-1084427	Sequence 1084427, A	353	13.4	70.5	1428	6	US-10-750-185-60312	Sequence 60312, A
C 281	13.4	70.5	19	8	US-11-101-244-1084431	Sequence 1084431, A	354	13.4	70.5	1428	6	US-10-750-623-60312	Sequence 60312, A
C 282	13.4	70.5	19	8	US-11-101-244-1084467	Sequence 1084467, A	355	13.4	70.5	1488	7	US-11-219-995-3	Sequence 3, Appli
C 283	13.4	70.5	19	8	US-11-101-244-1259340	Sequence 1259340, A	356	13.4	70.5	1543	6	US-10-750-185-46662	Sequence 46662, A
C 284	13.4	70.5	19	8	US-11-101-244-1530046	Sequence 1530046, A	357	13.4	70.5	1543	6	US-10-750-623-46662	Sequence 46662, A
C 285	13.4	70.5	19	8	US-11-083-784-1084427	Sequence 1084427, A	358	13.4	70.5	1661	6	US-10-453-372-1163	Sequence 1163, Ap
C 286	13.4	70.5	19	9	US-11-083-784-1084431	Sequence 1084431, A	359	13.4	70.5	1674	6	US-10-750-185-41826	Sequence 41826, A
C 287	13.4	70.5	19	9	US-11-083-784-1084467	Sequence 1084467, A	360	13.4	70.5	1674	6	US-10-750-623-41826	Sequence 41826, A
C 288	13.4	70.5	19	9	US-11-083-784-1259340	Sequence 1259340, A	361	13.4	70.5	1690	7	US-11-136-527-73	Sequence 73, Appli
C 289	13.4	70.5	19	9	US-11-083-784-1530046	Sequence 1530046, A	362	13.4	70.5	1747	6	US-10-750-185-37840	Sequence 37840, A
C 290	13.4	70.5	20	6	US-10-310-914A-118141	Sequence 118141, A	363	13.4	70.5	1747	6	US-10-750-623-37840	Sequence 37840, A
C 291	13.4	70.5	20	6	US-10-453-372-1588	Sequence 1588, Ap	364	13.4	70.5	1790	6	US-10-453-372-1161	Sequence 1161, Ap
C 292	13.4	70.5	21	6	US-10-310-914A-435160	Sequence 435160, A	365	13.4	70.5	1790	6	US-10-453-372-1171	Sequence 1171, Ap
C 293	13.4	70.5	21	6	US-10-310-914A-1220865	Sequence 1220865, A	366	13.4	70.5	1814	6	US-10-453-372-1159	Sequence 1159, Ap
C 294	13.4	70.5	22	6	US-10-310-914A-949056	Sequence 949056, A	367	13.4	70.5	1814	6	US-10-453-372-1165	Sequence 1165, Ap
C 295	13.4	70.5	22	6	US-10-310-914A-949035	Sequence 949035, A	368	13.4	70.5	1815	7	US-11-136-527-3839	Sequence 3839, Ap
C 296	13.4	70.5	23	6	US-10-310-914A-1067840	Sequence 1067840, A	369	13.4	70.5	1843	6	US-10-750-185-51502	Sequence 51502, A
C 297	13.4	70.5	23	6	US-10-310-914A-1067881	Sequence 1067881, A	370	13.4	70.5	1864	6	US-10-689-742-20	Sequence 20, Appli
C 298	13.4	70.5	24	6	US-10-310-914A-298452	Sequence 298452, A	371	13.4	70.5	1864	6	US-10-750-623-51502	Sequence 51502, A
C 299	13.4	70.5	24	6	US-10-310-914A-1067877	Sequence 1067877, A	372	13.4	70.5	1889	6	US-10-750-185-58544	Sequence 58544, A
C 300	13.4	70.5	25	6	US-10-310-914A-1296017	Sequence 1296017, A	373	13.4	70.5	1889	6	US-10-750-623-58544	Sequence 58544, A
C 301	13.4	70.5	25	7	US-11-121-849-274749	Sequence 274749, A	374	13.4	70.5	2018	6	US-10-453-372-1155	Sequence 1155, Ap
C 302	13.4	70.5	25	7	US-11-121-849-279453	Sequence 279453, A	375	13.4	70.5	2173	6	US-10-750-185-48999	Sequence 48999, A
C 303	13.4	70.5	25	7	US-11-121-849-492156	Sequence 492156, A	376	13.4	70.5	2173	6	US-10-750-623-48999	Sequence 48999, A
C 304	13.4	70.5	25	7	US-11-121-849-563078	Sequence 563078, A	377	13.4	70.5	2181	6	US-10-750-185-38846	Sequence 38846, A
C 305	13.4	70.5	25	7	US-11-121-849-648964	Sequence 648964, A	378	13.4	70.5	2181	6	US-10-750-623-38846	Sequence 38846, A
C 306	13.4	70.5	28	6	US-10-310-914A-887645	Sequence 887645, A	379	13.4	70.5	2225	7	US-11-136-527-3548	Sequence 3548, Ap
C 307	13.4	70.5	201	6	US-10-995-561-15874	Sequence 15874, A	380	13.4	70.5	2432	6	US-10-750-185-32418	Sequence 32418, A
C 308	13.4	70.5	201	6	US-10-995-561-15901	Sequence 15901, A	381	13.4	70.5	2432	6	US-10-750-623-32418	Sequence 32418, A
C 309	13.4	70.5	201	6	US-10-995-561-28757	Sequence 28757, A	382	13.4	70.5	2478	7	US-11-136-527-2074	Sequence 2074, Ap
C 310	13.4	70.5	201	6	US-10-995-561-31151	Sequence 31151, A	383	13.4	70.5	2534	7	US-11-219-995-1	Sequence 1, Appli
C 311	13.4	70.5	201	6	US-10-995-561-71684	Sequence 71684, A	384	13.4	70.5	2619	6	US-10-750-185-42549	Sequence 42549, A
C 312	13.4	70.5	201	6	US-10-995-561-74711	Sequence 74711, A	385	13.4	70.5	2619	6	US-10-750-623-42549	Sequence 42549, A
C 313	13.4	70.5	201	7	US-11-124-368A-5038	Sequence 5038, Ap	386	13.4	70.5	2682	7	US-11-136-527-3487	Sequence 3487, Ap
C 314	13.4	70.5	201	7	US-11-124-368A-13182	Sequence 13182, A	387	13.4	70.5	2711	6	US-10-750-185-42977	Sequence 42977, A
C 315	13.4	70.5	201	7	US-11-124-368A-20689	Sequence 20689, A	388	13.4	70.5	2711	6	US-10-750-623-42977	Sequence 42977, A

389	13.4	70.5	2819	6	US-10-453-372-1157	Sequence 1157, Ap	462	13.2	69.5	98	6	US-10-909-125-1363	Sequence 1363, Ap
390	13.4	70.5	3005	6	US-10-750-185-26664	Sequence 26664, A	463	13.2	69.5	98	6	US-10-909-125-1498	Sequence 1498, Ap
391	13.4	70.5	3005	6	US-10-750-623-26664	Sequence 26664, A	464	13.2	69.5	201	6	US-10-995-561-9308	Sequence 9308, Ap
392	13.4	70.5	3656	6	US-10-947-249-198	Sequence 198, App	465	13.2	69.5	201	6	US-10-995-561-9310	Sequence 9310, Ap
C 393	13.4	70.5	3934	6	US-10-750-185-49893	Sequence 49893, A	466	13.2	69.5	201	6	US-10-995-561-9315	Sequence 9315, Ap
C 394	13.4	70.5	3934	6	US-10-750-623-49893	Sequence 49893, A	467	13.2	69.5	201	6	US-10-995-561-9321	Sequence 9321, Ap
C 395	13.4	70.5	3934	7	US-11-136-527-2669	Sequence 2669, Ap	468	13.2	69.5	201	6	US-10-995-561-26529	Sequence 26529, A
396	13.4	70.5	3986	6	US-10-750-185-48137	Sequence 48137, A	469	13.2	69.5	201	6	US-10-995-561-39893	Sequence 39893, A
397	13.4	70.5	3986	6	US-10-750-623-48137	Sequence 48137, A	470	13.2	69.5	201	6	US-10-995-561-39894	Sequence 39894, A
C 398	13.4	70.5	4722	6	US-10-750-185-30583	Sequence 30583, A	471	13.2	69.5	201	6	US-10-995-561-48204	Sequence 48204, A
C 399	13.4	70.5	4722	6	US-10-750-623-30583	Sequence 30583, A	472	13.2	69.5	201	6	US-10-995-561-49004	Sequence 49004, A
400	13.4	70.5	5037	7	US-11-186-284-152	Sequence 152, App	C 473	13.2	69.5	201	6	US-10-995-561-49609	Sequence 49609, A
401	13.4	70.5	6050	7	US-11-136-527-239	Sequence 239, App	C 474	13.2	69.5	201	6	US-10-995-561-49621	Sequence 49621, A
C 402	13.4	70.5	9914	7	US-11-136-527-3364	Sequence 3364, Ap	C 475	13.2	69.5	201	6	US-10-995-561-52296	Sequence 52296, A
C 403	13.4	70.5	9914	7	US-11-136-527-1817	Sequence 1817, Ap	C 476	13.2	69.5	201	6	US-10-995-561-54500	Sequence 54500, A
C 404	13.4	70.5	10300	6	US-10-947-249-122	Sequence 122, App	C 477	13.2	69.5	201	6	US-10-995-561-54896	Sequence 54896, A
C 405	13.4	70.5	12724	6	US-11-124-368A-2932	Sequence 2932, Ap	C 478	13.2	69.5	201	6	US-10-995-561-54916	Sequence 54916, A
C 406	13.4	70.5	16360	6	US-10-519-531-1	Sequence 1, Appli	C 479	13.2	69.5	201	6	US-10-995-561-56811	Sequence 56811, A
C 407	13.4	70.5	16382	7	US-11-108-172-1112	Sequence 1112, Ap	C 480	13.2	69.5	201	6	US-10-995-561-61358	Sequence 61358, A
C 408	13.4	70.5	16382	7	US-11-000-688-239	Sequence 239, App	C 481	13.2	69.5	201	6	US-10-995-561-66718	Sequence 66718, A
409	13.4	70.5	16964	6	US-10-995-561-13424	Sequence 13424, A	C 482	13.2	69.5	201	6	US-10-995-561-66721	Sequence 66721, A
C 410	13.4	70.5	17207	6	US-10-519-531-8	Sequence 8, Appli	C 483	13.2	69.5	201	6	US-10-995-561-66848	Sequence 66848, A
C 411	13.4	70.5	20317	6	US-10-995-561-13460	Sequence 13460, A	C 484	13.2	69.5	201	6	US-10-995-561-66861	Sequence 66861, A
C 412	13.4	70.5	51749	6	US-10-995-561-13245	Sequence 13245, A	C 485	13.2	69.5	201	6	US-10-995-561-72601	Sequence 72601, A
C 413	13.4	70.5	65723	6	US-10-995-561-13200	Sequence 13200, A	C 486	13.2	69.5	201	6	US-10-995-561-73020	Sequence 73020, A
C 414	13.4	70.5	65931	6	US-10-995-561-13254	Sequence 13254, A	C 487	13.2	69.5	201	6	US-10-995-561-73031	Sequence 73031, A
C 415	13.4	70.5	98309	7	US-11-124-368A-2921	Sequence 2921, Ap	C 488	13.2	69.5	201	6	US-10-995-561-74791	Sequence 74791, A
C 416	13.4	70.5	127340	7	US-11-112-908-35	Sequence 35, Appli	C 489	13.2	69.5	201	6	US-10-995-561-75053	Sequence 75053, A
C 417	13.4	70.5	137671	7	US-11-121-086-47	Sequence 47, Appl	C 490	13.2	69.5	201	6	US-10-995-561-75074	Sequence 75074, A
C 418	13.4	70.5	142303	7	US-11-121-086-42	Sequence 42, Appl	C 491	13.2	69.5	201	6	US-10-995-561-75913	Sequence 75913, A
C 419	13.4	70.5	155515	7	US-11-112-908-61	Sequence 61, Appl	C 492	13.2	69.5	201	6	US-10-995-561-80126	Sequence 80126, A
C 420	13.4	70.5	156250	7	US-11-121-086-86	Sequence 86, Appl	C 493	13.2	69.5	201	6	US-10-995-561-84382	Sequence 84382, A
C 421	13.4	70.5	159660	7	US-11-112-908-43	Sequence 43, Appl	C 494	13.2	69.5	201	6	US-10-995-561-84772	Sequence 84772, A
C 422	13.4	70.5	164810	7	US-11-121-086-106	Sequence 106, App	C 501	13.2	69.5	201	6	US-10-995-561-84773	Sequence 84773, A
C 423	13.4	70.5	167891	7	US-11-121-086-14	Sequence 14, Appl	C 496	13.2	69.5	419	7	US-11-136-527-3957	Sequence 3957, Ap
C 424	13.4	70.5	169495	7	US-11-121-086-61	Sequence 61, Appl	C 497	13.2	69.5	419	7	US-11-136-527-8053	Sequence 8053, Ap
C 425	13.4	70.5	171486	7	US-11-121-086-105	Sequence 105, App	C 498	13.2	69.5	470	7	US-11-128-061-5537	Sequence 5537, Ap
C 426	13.4	70.5	177623	7	US-11-112-908-41	Sequence 41, Appl	C 499	13.2	69.5	504	7	US-11-128-061-5456	Sequence 5456, Ap
C 427	13.4	70.5	179777	7	US-11-121-086-106	Sequence 106, App	C 500	13.2	69.5	592	7	US-11-128-061-1895	Sequence 1895, Ap
C 428	13.4	70.5	186442	7	US-11-121-086-104	Sequence 104, App	C 501	13.2	69.5	519	7	US-11-136-527-413	Sequence 413, App
C 429	13.4	70.5	191091	7	US-11-121-086-60	Sequence 60, Appl	C 502	13.2	69.5	519	7	US-11-136-527-4509	Sequence 4509, Ap
C 430	13.4	70.5	218821	7	US-11-121-086-31	Sequence 31, Appl	C 503	13.2	69.5	569	7	US-11-128-061-1814	Sequence 1814, Ap
C 431	13.4	70.5	222094	6	US-10-995-561-13244	Sequence 13244, A	C 504	13.2	69.5	600	6	US-10-750-185-1996	Sequence 1996, Ap
C 432	13.4	70.5	268685	6	US-10-933-025-22	Sequence 22, Appl	C 505	13.2	69.5	600	6	US-10-750-623-1996	Sequence 1996, Ap
C 433	13.4	70.5	1691140	7	US-11-091-018-1	Sequence 1, Appli	C 506	13.2	69.5	728	6	US-10-055-877-86	Sequence 86, Appl
C 434	13.2	69.5	19	6	US-10-310-914A-513350	Sequence 513350, A	C 507	13.2	69.5	728	6	US-10-453-372-915	Sequence 915, App
C 435	13.2	69.5	19	6	US-10-310-914A-1011876	Sequence 1011876, A	C 508	13.2	69.5	746	7	US-11-112-908-450	Sequence 450, App
C 436	13.2	69.5	19	6	US-10-310-914A-1126273	Sequence 1126273, A	C 509	13.2	69.5	756	6	US-10-750-185-64403	Sequence 64403, A
C 437	13.2	69.5	20	6	US-10-310-914A-247437	Sequence 247437, A	C 510	13.2	69.5	756	6	US-10-750-623-64403	Sequence 64403, A
C 438	13.2	69.5	20	6	US-10-310-914A-725596	Sequence 725596, A	C 511	13.2	69.5	773	6	US-10-750-185-44402	Sequence 44402, A
C 439	13.2	69.5	21	6	US-10-310-914A-401865	Sequence 401865, A	C 512	13.2	69.5	773	6	US-10-750-623-44402	Sequence 44402, A
C 440	13.2	69.5	21	6	US-10-310-914A-515351	Sequence 515351, A	C 513	13.2	69.5	779	6	US-10-055-877-98	Sequence 98, Appl
C 441	13.2	69.5	21	6	US-10-310-914A-752972	Sequence 752972, A	C 514	13.2	69.5	783	6	US-10-750-185-49094	Sequence 49094, A
C 442	13.2	69.5	21	6	US-10-310-914A-1178611	Sequence 1178611, A	C 515	13.2	69.5	783	6	US-10-750-623-49094	Sequence 49094, A
C 443	13.2	69.5	21	6	US-10-310-914A-1302620	Sequence 1302620, A	C 516	13.2	69.5	803	6	US-10-750-185-24512	Sequence 24512, A
C 444	13.2	69.5	22	6	US-10-310-914A-691700	Sequence 691700, A	C 517	13.2	69.5	803	6	US-10-750-623-24512	Sequence 24512, A
C 445	13.2	69.5	22	6	US-10-310-914A-1011877	Sequence 1011877, A	C 518	13.2	69.5	814	6	US-10-750-185-38726	Sequence 38726, A
C 446	13.2	69.5	24	6	US-10-310-914A-162763	Sequence 162763, A	C 519	13.2	69.5	814	6	US-10-750-623-38726	Sequence 38726, A
C 447	13.2	69.5	24	6	US-10-310-914A-170604	Sequence 170604, A	C 520	13.2	69.5	835	6	US-10-750-185-24889	Sequence 24889, A
C 448	13.2	69.5	24	6	US-10-310-914A-1170603	Sequence 1170603, A	C 521	13.2	69.5	835	6	US-10-750-623-24889	Sequence 24889, A
C 449	13.2	69.5	25	6	US-10-310-914A-368051	Sequence 368051, A	C 522	13.2	69.5	843	6	US-10-750-185-24952	Sequence 24952, A
C 450	13.2	69.5	25	6	US-10-310-914A-624314	Sequence 624314, A	C 523	13.2	69.5	843	6	US-10-750-623-24952	Sequence 24952, A
C 451	13.2	69.5	25	6	US-10-310-914A-1126261	Sequence 1126261, A	C 524	13.2	69.5	860	6	US-10-750-185-28769	Sequence 28769, A
C 452	13.2	69.5	25	7	US-11-121-849-572594	Sequence 572594, A	C 525	13.2	69.5	860	6	US-10-750-623-28769	Sequence 28769, A
C 453	13.2	69.5	25	7	US-11-136-527-263601	Sequence 263601, A	C 526	13.2	69.5	874	6	US-10-995-561-332	Sequence 332, App
C 454	13.2	69.5	25	7	US-11-136-527-263606	Sequence 263606, A	C 527	13.2	69.5	903	6	US-10-750-185-40499	Sequence 40499, A
C 455	13.2	69.5	25	7	US-11-136-527-314783	Sequence 314783, A	C 528	13.2	69.5	903	6	US-10-750-623-40499	Sequence 40499, A
C 456	13.2	69.5	28	6	US-10-310-914A-1011824	Sequence 1011824, A	C 529	13.2	69.5	916	6	US-10-750-185-58791	Sequence 58791, A
C 457	13.2	69.5	29	6	US-10-310-914A-1126276	Sequence 1126276, A	C 530	13.2	69.5	916	6	US-10-750-623-58791	Sequence 58791, A
C 458	13.2	69.5	67	6	US-10-310-914A-10430	Sequence 10430, A	C 531	13.2	69.5	931	6	US-10-750-185-51036	Sequence 51036, A
C 459	13.2	69.5	71	6	US-10-310-914A-11603	Sequence 11603, A	C 532	13.2	69.5	931	6	US-10-750-623-51036	Sequence 51036, A
C 460	13.2	69.5	71	6	US-10-310-914A-20345	Sequence 20345, A	C 533	13.2	69.5	953	6	US-10-750-185-27787	Sequence 27787, A
C 461	13.2	69.5	72	6	US-10-310-914A-6097	Sequence 6097, Ap	C 534	13.2	69.5	953	6	US-10-750-623-27787	Sequence 27787, A

C 535	13.2	69.5	966	6	US-10-750-185-62450	Sequence 62450, A	608	13.2	69.5	1703	7	US-11-136-527-2577	Sequence 2577, Ap
C 536	13.2	69.5	966	6	US-10-750-623-42450	Sequence 62450, A	609	13.2	69.5	1705	6	US-10-750-185-42024	Sequence 42024, A
C 537	13.2	69.5	977	6	US-10-750-185-30000	Sequence 30000, A	610	13.2	69.5	1705	6	US-10-750-623-42024	Sequence 42024, A
C 538	13.2	69.5	977	6	US-10-750-623-30000	Sequence 30000, A	611	13.2	69.5	1724	7	US-11-136-527-2513	Sequence 2513, Ap
C 539	13.2	69.5	1022	6	US-10-750-185-60857	Sequence 60857, A	C 612	13.2	69.5	1735	6	US-10-750-185-32897	Sequence 32897, A
C 540	13.2	69.5	1022	6	US-10-750-623-60857	Sequence 60857, A	C 613	13.2	69.5	1735	6	US-10-750-623-32897	Sequence 32897, A
C 541	13.2	69.5	1044	6	US-10-821-234-527	Sequence 527, App	C 614	13.2	69.5	1765	6	US-10-750-185-46871	Sequence 46871, A
C 542	13.2	69.5	1045	7	US-11-128-061-688	Sequence 687, App	C 615	13.2	69.5	1765	6	US-10-750-623-46871	Sequence 46871, A
C 543	13.2	69.5	1060	6	US-10-995-561-333	Sequence 561, App	C 616	13.2	69.5	1811	7	US-11-136-527-2539	Sequence 2529, Ap
C 544	13.2	69.5	1082	6	US-10-055-877-82	Sequence 82, Appl	C 617	13.2	69.5	1825	6	US-10-750-185-58628	Sequence 58628, A
C 545	13.2	69.5	1101	6	US-10-750-185-43313	Sequence 43313, A	C 618	13.2	69.5	1825	6	US-10-750-623-58628	Sequence 58628, A
C 546	13.2	69.5	1101	6	US-10-750-623-43313	Sequence 43313, A	C 619	13.2	69.5	1844	6	US-10-750-185-35327	Sequence 35327, A
C 547	13.2	69.5	1104	6	US-10-055-877-88	Sequence 88, Appl	C 620	13.2	69.5	1844	6	US-10-750-623-35327	Sequence 35327, A
C 548	13.2	69.5	1104	6	US-10-453-372-917	Sequence 917, App	C 621	13.2	69.5	1859	7	US-11-136-527-2364	Sequence 2364, Ap
C 549	13.2	69.5	1114	6	US-10-750-185-43051	Sequence 43051, A	C 622	13.2	69.5	1917	6	US-10-750-185-25966	Sequence 25966, A
C 550	13.2	69.5	1114	6	US-10-750-623-43051	Sequence 43051, A	C 623	13.2	69.5	1917	6	US-10-750-623-25966	Sequence 25966, A
C 551	13.2	69.5	1114	6	US-10-055-877-94	Sequence 94, Appl	C 624	13.2	69.5	1928	6	US-10-750-185-43392	Sequence 43392, A
C 552	13.2	69.5	1144	6	US-10-453-372-925	Sequence 925, App	C 625	13.2	69.5	1928	6	US-10-750-623-43392	Sequence 43392, A
C 553	13.2	69.5	1185	6	US-10-750-185-47780	Sequence 47780, A	C 626	13.2	69.5	1940	6	US-10-750-185-41477	Sequence 41477, A
C 554	13.2	69.5	1185	6	US-10-750-623-47780	Sequence 47780, A	C 627	13.2	69.5	1940	6	US-10-750-623-41477	Sequence 41477, A
C 555	13.2	69.5	1186	6	US-10-750-185-36556	Sequence 36556, A	C 628	13.2	69.5	1952	6	US-10-750-185-55506	Sequence 55506, A
C 556	13.2	69.5	1186	6	US-10-750-623-36556	Sequence 36556, A	C 629	13.2	69.5	1952	6	US-10-750-623-55506	Sequence 55506, A
C 557	13.2	69.5	1187	6	US-10-453-372-911	Sequence 911, App	C 630	13.2	69.5	1971	6	US-10-750-185-58644	Sequence 58644, A
C 558	13.2	69.5	1194	6	US-10-055-877-92	Sequence 92, Appl	C 631	13.2	69.5	1971	6	US-10-750-623-58644	Sequence 58644, A
C 559	13.2	69.5	1200	6	US-10-750-185-34869	Sequence 34869, A	C 632	13.2	69.5	1972	6	US-10-955-054A-153	Sequence 153, App
C 560	13.2	69.5	1200	6	US-10-750-623-34869	Sequence 34869, A	C 633	13.2	69.5	2010	7	US-11-000-688-911	Sequence 911, App
C 561	13.2	69.5	1240	6	US-10-750-185-54222	Sequence 54222, A	C 634	13.2	69.5	2015	6	US-10-821-234-98	Sequence 98, Appl
C 562	13.2	69.5	1240	6	US-10-750-623-54222	Sequence 54222, A	C 635	13.2	69.5	2072	6	US-10-750-185-45962	Sequence 45862, A
C 563	13.2	69.5	1243	6	US-10-750-185-49149	Sequence 49149, A	C 636	13.2	69.5	2072	6	US-10-750-623-45962	Sequence 45862, A
C 564	13.2	69.5	1243	6	US-10-750-623-49149	Sequence 49149, A	C 637	13.2	69.5	2155	6	US-10-750-185-25820	Sequence 25820, A
C 565	13.2	69.5	1286	6	US-10-750-185-31272	Sequence 31272, A	C 638	13.2	69.5	2155	6	US-10-750-623-25820	Sequence 25820, A
C 566	13.2	69.5	1296	6	US-10-750-623-31272	Sequence 31272, A	C 639	13.2	69.5	2237	6	US-10-131-826A-45	Sequence 45, Appl
C 567	13.2	69.5	1311	7	US-11-128-061-1022	Sequence 1022, Ap	C 640	13.2	69.5	2298	6	US-10-750-185-31120	Sequence 31120, A
C 568	13.2	69.5	1311	7	US-11-128-061-4664	Sequence 4664, Ap	C 641	13.2	69.5	2298	6	US-10-750-623-31120	Sequence 31120, A
C 569	13.2	69.5	1316	6	US-10-750-185-27136	Sequence 27136, A	C 642	13.2	69.5	2317	6	US-10-750-185-36763	Sequence 36763, A
C 570	13.2	69.5	1316	6	US-10-750-623-27136	Sequence 27136, A	C 643	13.2	69.5	2317	6	US-10-750-623-36763	Sequence 36763, A
C 571	13.2	69.5	1332	6	US-10-055-877-84	Sequence 84, Appl	C 644	13.2	69.5	2320	7	US-11-124-368A-131	Sequence 131, App
C 572	13.2	69.5	1332	6	US-10-453-372-913	Sequence 913, App	C 645	13.2	69.5	2359	7	US-11-136-527-93	Sequence 93, Appl
C 573	13.2	69.5	1344	6	US-10-750-185-50473	Sequence 50473, A	C 646	13.2	69.5	2379	6	US-10-750-185-34688	Sequence 34688, A
C 574	13.2	69.5	1344	6	US-10-750-623-50473	Sequence 50473, A	C 647	13.2	69.5	2379	6	US-10-750-623-34688	Sequence 34688, A
C 575	13.2	69.5	1345	6	US-10-750-185-28126	Sequence 28126, A	C 648	13.2	69.5	2392	6	US-10-750-185-26754	Sequence 26754, A
C 576	13.2	69.5	1345	6	US-10-750-623-28126	Sequence 28126, A	C 649	13.2	69.5	2392	6	US-10-750-623-26754	Sequence 26754, A
C 577	13.2	69.5	1354	6	US-10-750-185-28368	Sequence 28368, A	C 650	13.2	69.5	2402	6	US-10-750-185-40977	Sequence 40977, A
C 578	13.2	69.5	1354	6	US-10-750-623-28368	Sequence 28368, A	C 651	13.2	69.5	2402	6	US-10-750-623-40977	Sequence 40977, A
C 579	13.2	69.5	1360	6	US-10-750-185-37773	Sequence 37773, A	C 652	13.2	69.5	2419	6	US-10-750-185-28134	Sequence 28134, A
C 580	13.2	69.5	1360	6	US-10-750-623-37773	Sequence 37773, A	C 653	13.2	69.5	2419	6	US-10-750-623-28134	Sequence 28134, A
C 581	13.2	69.5	1386	6	US-10-509-464-3	Sequence 3, Appli	C 654	13.2	69.5	2440	7	US-11-000-688-1159	Sequence 1159, Ap
C 582	13.2	69.5	1391	6	US-10-750-185-31778	Sequence 31778, A	C 655	13.2	69.5	2498	6	US-10-131-826A-43	Sequence 43, App
C 583	13.2	69.5	1391	6	US-10-750-623-31778	Sequence 31778, A	C 656	13.2	69.5	2566	7	US-11-000-688-272	Sequence 272, App
C 584	13.2	69.5	1400	7	US-11-136-527-4231	Sequence 4231, Ap	C 657	13.2	69.5	2611	6	US-10-750-185-25821	Sequence 25821, A
C 585	13.2	69.5	1400	7	US-11-136-527-6609	Sequence 6609, Ap	C 658	13.2	69.5	2611	6	US-10-750-623-25821	Sequence 25821, A
C 586	13.2	69.5	1400	7	US-11-136-527-6673	Sequence 6673, Ap	C 659	13.2	69.5	2615	6	US-10-750-185-57175	Sequence 57175, A
C 587	13.2	69.5	1400	7	US-11-136-527-6673	Sequence 6673, Ap	C 660	13.2	69.5	2615	6	US-10-750-623-57175	Sequence 57175, A
C 588	13.2	69.5	1434	6	US-10-750-185-43611	Sequence 43611, A	C 661	13.2	69.5	2644	6	US-10-821-234-190	Sequence 190, App
C 589	13.2	69.5	1434	6	US-10-750-623-43611	Sequence 43611, A	C 662	13.2	69.5	2676	7	US-11-136-527-2568	Sequence 2568, Ap
C 590	13.2	69.5	1442	6	US-10-750-185-25029	Sequence 25029, A	C 663	13.2	69.5	2680	7	US-11-136-527-3689	Sequence 3689, Ap
C 591	13.2	69.5	1442	6	US-10-750-623-25029	Sequence 25029, A	C 664	13.2	69.5	2895	6	US-10-750-185-35595	Sequence 35595, A
C 592	13.2	69.5	1484	6	US-10-750-185-39116	Sequence 39116, A	C 665	13.2	69.5	2895	6	US-10-750-623-35595	Sequence 35595, A
C 593	13.2	69.5	1484	6	US-10-750-623-39116	Sequence 39116, A	C 666	13.2	69.5	2899	6	US-10-750-185-41156	Sequence 41156, A
C 594	13.2	69.5	1517	6	US-10-750-185-47146	Sequence 47146, A	C 667	13.2	69.5	2899	6	US-10-750-623-41156	Sequence 41156, A
C 595	13.2	69.5	1517	6	US-10-750-623-47146	Sequence 47146, A	C 668	13.2	69.5	2918	7	US-11-136-527-125	Sequence 125, App
C 596	13.2	69.5	1571	6	US-10-750-185-31755	Sequence 31755, A	C 669	13.2	69.5	2995	6	US-10-750-185-26936	Sequence 26936, A
C 597	13.2	69.5	1571	6	US-10-750-623-31755	Sequence 31755, A	C 670	13.2	69.5	2995	6	US-10-750-623-26936	Sequence 26936, A
C 598	13.2	69.5	1582	6	US-10-750-185-46135	Sequence 46135, A	C 671	13.2	69.5	3025	6	US-10-750-185-29844	Sequence 29844, A
C 599	13.2	69.5	1582	6	US-10-750-623-46135	Sequence 46135, A	C 672	13.2	69.5	3025	6	US-10-750-623-29844	Sequence 29844, A
C 600	13.2	69.5	1602	6	US-10-750-185-34731	Sequence 34731, A	C 673	13.2	69.5	3074	7	US-11-136-527-2953	Sequence 2953, Ap
C 601	13.2	69.5	1602	6	US-10-750-623-34731	Sequence 34731, A	C 674	13.2	69.5	3118	6	US-10-750-185-30921	Sequence 30921, A
C 602	13.2	69.5	1604	7	US-11-136-527-135	Sequence 135, App	C 675	13.2	69.5	3118	6	US-10-750-623-30921	Sequence 30921, A
C 603	13.2	69.5	1642	6	US-10-750-185-49717	Sequence 49717, A	C 676	13.2	69.5	3296	6	US-10-131-826A-369	Sequence 369, App
C 604	13.2	69.5	1642	6	US-10-750-623-49717	Sequence 49717, A	C 677	13.2	69.5	3373	7	US-11-136-527-1940	Sequence 1940, Ap
C 605	13.2	69.5	1652	7	US-11-159-516A-28	Sequence 28, Appl	C 678	13.2	69.5	3418	7	US-11-136-527-3778	Sequence 3778, Ap
C 606	13.2	69.5	1677	6	US-10-750-185-63393	Sequence 63393, A	C 679	13.2	69.5	3594	6	US-10-750-185-35736	Sequence 35736, A
C 607	13.2	69.5	1677	6	US-10-750-623-63393	Sequence 63393, A	C 680	13.2	69.5	3594	6	US-10-750-623-35736	Sequence 35736, A

c 681	13.2	69.5	3722	6	US-10-750-185-38335	Sequence 38335, A	c 754	13.2	69.5	171162	7	US-11-112-908-38	Sequence 38, Appl
c 682	13.2	69.5	3722	6	US-10-750-623-38335	Sequence 38335, A	c 755	13.2	69.5	171936	6	US-10-933-025-24	Sequence 24, Appl
c 683	13.2	69.5	3748	6	US-10-750-185-39507	Sequence 39507, A	c 756	13.2	69.5	171936	6	US-10-933-025-24	Sequence 24, Appl
c 684	13.2	69.5	3748	6	US-10-750-623-39507	Sequence 39507, A	c 757	13.2	69.5	173602	7	US-11-121-086-25	Sequence 25, Appl
c 685	13.2	69.5	3946	6	US-10-750-185-58542	Sequence 58542, A	c 758	13.2	69.5	177623	7	US-11-112-908-41	Sequence 41, Appl
c 686	13.2	69.5	3946	6	US-10-750-623-58542	Sequence 58542, A	c 759	13.2	69.5	181172	7	US-11-121-086-41	Sequence 41, Appl
c 687	13.2	69.5	3986	6	US-10-750-185-48137	Sequence 48137, A	c 760	13.2	69.5	182303	7	US-11-121-086-45	Sequence 45, Appl
c 688	13.2	69.5	3986	6	US-10-750-623-48137	Sequence 48137, A	c 761	13.2	69.5	187745	7	US-11-121-086-83	Sequence 83, Appl
c 689	13.2	69.5	4016	7	US-11-136-527-3313	Sequence 3313, Ap	c 762	13.2	69.5	193789	7	US-11-112-908-55	Sequence 55, Appl
c 690	13.2	69.5	4068	7	US-11-000-688-68	Sequence 68, Appl	c 763	13.2	69.5	193789	7	US-11-112-908-55	Sequence 55, Appl
c 691	13.2	69.5	4070	7	US-11-000-688-134	Sequence 134, Appl	c 764	13.2	69.5	195998	6	US-10-995-561-13489	Sequence 13489, A
c 692	13.2	69.5	4928	6	US-10-750-185-31365	Sequence 31365, A	c 765	13.2	69.5	199130	6	US-10-995-561-13236	Sequence 13236, A
c 693	13.2	69.5	4928	6	US-10-750-623-31365	Sequence 31365, A	c 766	13.2	69.5	305312	6	US-10-995-561-13236	Sequence 13236, A
c 694	13.2	69.5	5515	7	US-10-517-605-14	Sequence 14, Appl	c 767	13.2	69.5	321019	6	US-10-995-561-13204	Sequence 13204, A
c 695	13.2	69.5	5515	7	US-11-055-309A-2	Sequence 2, Appl	c 768	13.2	69.5	321019	6	US-10-995-561-13204	Sequence 13204, A
c 696	13.2	69.5	5956	7	US-11-136-527-2230	Sequence 2230, Ap	c 769	13.2	69.5	321019	6	US-10-995-561-13204	Sequence 13204, A
c 697	13.2	69.5	5982	7	US-11-034-771-1	Sequence 1, Appl	c 770	13.2	69.5	387780	6	US-10-995-561-13259	Sequence 13259, A
c 698	13.2	69.5	6681	7	US-11-000-688-349	Sequence 349, App	c 771	13.2	69.5	1080000	6	US-10-928-446A-1	Sequence 1, Appl
c 699	13.2	69.5	6890	7	US-11-005-029-1	Sequence 1, Appl	c 772	13.2	69.5	1080000	6	US-10-928-446A-181	Sequence 181, App
c 700	13.2	69.5	6990	7	US-11-000-688-609	Sequence 609, App	c 773	13.2	69.5	1080000	6	US-10-928-446A-183	Sequence 183, App
c 701	13.2	69.5	7584	7	US-11-124-368A-129	Sequence 129, App	c 774	13.2	69.5	1080000	6	US-10-928-446A-185	Sequence 185, App
c 702	13.2	69.5	7697	7	US-11-124-368A-133	Sequence 133, App	c 775	13.2	69.5	1080000	6	US-10-928-446A-187	Sequence 187, App
c 703	13.2	69.5	8268	7	US-11-136-527-3386	Sequence 3386, Ap	c 776	13.2	69.5	1080000	6	US-10-928-446A-189	Sequence 189, App
c 704	13.2	69.5	9578	7	US-11-136-527-3985	Sequence 3985, Ap	c 777	13.2	69.5	1080000	6	US-10-928-446A-191	Sequence 191, App
c 705	13.2	69.5	12726	6	US-10-995-561-13384	Sequence 13384, A	c 778	13.2	69.5	1080000	6	US-10-928-446A-193	Sequence 193, App
c 706	13.2	69.5	13242	6	US-10-995-561-13441	Sequence 13441, A	c 779	13.2	69.5	1080000	6	US-10-928-446A-195	Sequence 195, App
c 707	13.2	69.5	14113	6	US-10-995-561-13405	Sequence 13405, A	c 780	13.2	69.5	1080000	6	US-10-928-446A-197	Sequence 197, App
c 708	13.2	69.5	14896	7	US-11-000-688-946	Sequence 946, App	c 781	13.2	69.5	1080000	6	US-10-928-446A-199	Sequence 199, App
c 709	13.2	69.5	15804	6	US-10-995-561-13294	Sequence 13294, A	c 782	13.2	69.5	1080000	6	US-10-928-446A-201	Sequence 201, App
c 710	13.2	69.5	16643	6	US-10-995-561-13302	Sequence 13302, A	c 783	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 711	13.2	69.5	16963	6	US-10-995-561-13467	Sequence 13467, A	c 784	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 712	13.2	69.5	18238	6	US-10-995-561-13386	Sequence 13386, A	c 785	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 713	13.2	69.5	19143	6	US-10-995-561-13470	Sequence 13470, A	c 786	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 714	13.2	69.5	19675	7	US-11-124-368A-2878	Sequence 2878, Ap	c 787	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 715	13.2	69.5	24446	6	US-10-995-561-13436	Sequence 13436, A	c 788	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 716	13.2	69.5	29959	6	US-10-995-561-13475	Sequence 13475, A	c 789	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 717	13.2	69.5	32157	6	US-10-995-561-13352	Sequence 13352, A	c 790	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 718	13.2	69.5	40000	6	US-10-995-561-13513	Sequence 13513, A	c 791	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 719	13.2	69.5	40000	6	US-10-995-561-13513	Sequence 13513, A	c 792	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 720	13.2	69.5	53641	6	US-10-995-561-13238	Sequence 13238, A	c 793	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 721	13.2	69.5	60754	6	US-10-995-561-13440	Sequence 13440, A	c 794	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 722	13.2	69.5	67858	6	US-10-995-561-13484	Sequence 13484, A	c 795	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 723	13.2	69.5	76589	6	US-10-995-561-13322	Sequence 13322, A	c 796	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 724	13.2	69.5	86131	6	US-10-995-561-13298	Sequence 13298, A	c 797	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 725	13.2	69.5	91561	7	US-11-124-368A-2896	Sequence 2896, Ap	c 798	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 726	13.2	69.5	91576	6	US-10-995-561-13461	Sequence 13461, A	c 799	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 727	13.2	69.5	93112	6	US-10-995-561-13234	Sequence 13234, A	c 800	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 728	13.2	69.5	98560	6	US-10-995-561-13323	Sequence 13323, A	c 801	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 729	13.2	69.5	98560	6	US-10-995-561-13323	Sequence 13323, A	c 802	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 730	13.2	69.5	100000	7	US-11-124-368A-2918	Sequence 2918, Ap	c 803	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 731	13.2	69.5	101046	6	US-10-995-561-13330	Sequence 13330, A	c 804	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 732	13.2	69.5	110608	6	US-10-775-169-193	Sequence 193, App	c 805	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 733	13.2	69.5	119160	6	US-11-121-086-12	Sequence 12, Appl	c 806	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 734	13.2	69.5	130472	6	US-10-995-561-13312	Sequence 13312, A	c 807	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 735	13.2	69.5	137671	6	US-11-121-086-47	Sequence 47, Appl	c 808	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 736	13.2	69.5	137935	6	US-10-995-561-13278	Sequence 13278, A	c 809	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 737	13.2	69.5	148935	6	US-10-995-561-13308	Sequence 13308, A	c 810	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 738	13.2	69.5	149419	7	US-11-112-908-49	Sequence 49, Appl	c 811	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 739	13.2	69.5	150038	7	US-11-121-086-23	Sequence 23, Appl	c 812	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 740	13.2	69.5	150481	7	US-11-112-908-37	Sequence 37, Appl	c 813	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 741	13.2	69.5	150481	7	US-11-112-908-37	Sequence 37, Appl	c 814	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 742	13.2	69.5	153142	7	US-11-121-086-27	Sequence 27, Appl	c 815	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 743	13.2	69.5	153375	7	US-11-121-086-5	Sequence 5, Appl	c 816	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 744	13.2	69.5	155515	7	US-11-112-908-42	Sequence 42, Appl	c 817	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 745	13.2	69.5	156260	7	US-11-121-086-87	Sequence 87, Appl	c 818	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 746	13.2	69.5	160226	7	US-11-121-086-29	Sequence 29, Appl	c 819	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 747	13.2	69.5	161726	7	US-11-112-908-48	Sequence 48, Appl	c 820	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 748	13.2	69.5	161726	7	US-11-112-908-52	Sequence 52, Appl	c 821	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 749	13.2	69.5	161994	7	US-11-112-908-57	Sequence 57, Appl	c 822	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 750	13.2	69.5	162013	7	US-11-150-888-30	Sequence 30, Appl	c 823	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 751	13.2	69.5	162289	7	US-11-121-086-20	Sequence 20, Appl	c 824	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 752	13.2	69.5	170995	7	US-11-121-086-35	Sequence 35, Appl	c 825	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A
c 753	13.2	69.5	171162	7	US-11-112-908-38	Sequence 38, Appl	c 826	13.2	69.5	11250000	6	US-10-995-561-13286	Sequence 13286, A

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828	13	68.4	198285	6	US-10-775-169-338	Sequence 338, App	C 901	12.8	67.4	201	6	US-10-995-561-39842	Sequence 39842, A
829	12.8	67.4	18	6	US-10-310-914A-161812	Sequence 161812,	C 902	12.8	67.4	201	6	US-10-995-561-43739	Sequence 43739, A
830	12.8	67.4	18	6	US-10-310-914A-1179188	Sequence 1179188,	903	12.8	67.4	201	6	US-10-995-561-50240	Sequence 50240, A
831	12.8	67.4	19	6	US-10-310-914A-480029	Sequence 480029,	904	12.8	67.4	201	6	US-10-995-561-55299	Sequence 55299, A
832	12.8	67.4	19	7	US-11-069-908-968	Sequence 968, App	905	12.8	67.4	201	6	US-10-995-561-55508	Sequence 55508, A
833	12.8	67.4	19	7	US-11-069-908-3334	Sequence 3334, App	906	12.8	67.4	201	6	US-10-995-561-62997	Sequence 62997, A
C 834	12.8	67.4	19	7	US-11-110-011-10	Sequence 10, Appl	907	12.8	67.4	201	6	US-10-995-561-62998	Sequence 62998, A
C 835	12.8	67.4	19	8	US-11-101-244-150733	Sequence 150733,	908	12.8	67.4	201	6	US-10-995-561-72475	Sequence 72475, A
C 836	12.8	67.4	19	8	US-11-101-244-150733	Sequence 150733,	909	12.8	67.4	201	6	US-10-995-561-73475	Sequence 73475, A
837	12.8	67.4	19	8	US-11-101-244-195551	Sequence 195551,	C 910	12.8	67.4	201	6	US-10-995-561-73486	Sequence 73486, A
838	12.8	67.4	19	8	US-11-101-244-272336	Sequence 272336,	C 911	12.8	67.4	201	6	US-10-995-561-76379	Sequence 76379, A
C 839	12.8	67.4	19	8	US-11-101-244-546237	Sequence 546237,	C 912	12.8	67.4	201	6	US-10-995-561-76381	Sequence 76381, A
840	12.8	67.4	19	8	US-11-101-244-625185	Sequence 625185,	C 913	12.8	67.4	201	6	US-10-995-561-76762	Sequence 76762, A
841	12.8	67.4	19	8	US-11-101-244-625248	Sequence 625248,	C 914	12.8	67.4	201	6	US-10-995-561-81492	Sequence 81492, A
842	12.8	67.4	19	8	US-11-101-244-676814	Sequence 676814,	915	12.8	67.4	201	6	US-10-995-561-83014	Sequence 83014, A
C 843	12.8	67.4	19	8	US-11-101-244-886372	Sequence 886372,	916	12.8	67.4	201	6	US-10-995-561-83031	Sequence 83031, A
C 844	12.8	67.4	19	8	US-11-101-244-999591	Sequence 999591,	917	12.8	67.4	201	6	US-10-995-561-83033	Sequence 83033, A
845	12.8	67.4	19	8	US-11-101-244-1054840	Sequence 1054840,	C 918	12.8	67.4	201	7	US-11-124-368A-4588	Sequence 4588, App
C 846	12.8	67.4	19	8	US-11-101-244-1244594	Sequence 1244594,	919	12.8	67.4	201	7	US-11-124-368A-12329	Sequence 12329, A
C 847	12.8	67.4	19	9	US-11-083-784-150733	Sequence 150733,	920	12.8	67.4	201	7	US-11-124-368A-15184	Sequence 15184, A
C 848	12.8	67.4	19	9	US-11-083-784-150763	Sequence 150763,	C 921	12.8	67.4	201	7	US-11-124-368A-20084	Sequence 20084, A
849	12.8	67.4	19	9	US-11-083-784-195551	Sequence 195551,	922	12.8	67.4	441	7	US-11-128-061-2283	Sequence 2283, App
C 850	12.8	67.4	19	9	US-11-083-784-272336	Sequence 272336,	923	12.8	67.4	441	7	US-11-128-061-5985	Sequence 5985, App
C 851	12.8	67.4	19	9	US-11-083-784-546237	Sequence 546237,	924	12.8	67.4	442	7	US-11-128-061-1489	Sequence 1489, App
852	12.8	67.4	19	9	US-11-083-784-625185	Sequence 625185,	C 925	12.8	67.4	442	7	US-11-128-061-5131	Sequence 5131, App
853	12.8	67.4	19	9	US-11-083-784-625248	Sequence 625248,	C 926	12.8	67.4	471	6	US-10-750-185-47088	Sequence 47088, A
854	12.8	67.4	19	9	US-11-083-784-676814	Sequence 676814,	C 927	12.8	67.4	471	6	US-10-750-623-47088	Sequence 47088, A
C 855	12.8	67.4	19	9	US-11-083-784-886372	Sequence 886372,	928	12.8	67.4	494	6	US-10-802-796-136	Sequence 136, App
C 856	12.8	67.4	19	9	US-11-083-784-999591	Sequence 999591,	929	12.8	67.4	535	7	US-11-128-061-2912	Sequence 2912, App
857	12.8	67.4	19	9	US-11-083-784-1054840	Sequence 1054840,	C 930	12.8	67.4	535	7	US-11-128-061-6554	Sequence 6554, App
C 858	12.8	67.4	19	9	US-11-083-784-1244594	Sequence 1244594,	C 931	12.8	67.4	540	6	US-10-665-455-7	Sequence 7, Appli
C 859	12.8	67.4	20	6	US-10-750-185-13911	Sequence 13911, A	932	12.8	67.4	560	7	US-11-128-061-2975	Sequence 2975, App
C 860	12.8	67.4	20	6	US-10-750-623-13911	Sequence 13911, A	933	12.8	67.4	560	7	US-11-128-061-6617	Sequence 6617, App
C 861	12.8	67.4	20	6	US-10-310-914A-595255	Sequence 595255,	934	12.8	67.4	561	6	US-10-750-185-4176	Sequence 4176, App
C 862	12.8	67.4	21	6	US-10-310-914A-1061302	Sequence 1061302,	935	12.8	67.4	581	6	US-10-750-623-4176	Sequence 4176, App
863	12.8	67.4	21	6	US-10-310-914A-1179069	Sequence 1179069,	C 936	12.8	67.4	580	7	US-11-128-061-1217	Sequence 1217, App
C 864	12.8	67.4	22	6	US-10-310-914A-166287	Sequence 166287,	C 937	12.8	67.4	580	7	US-11-136-527-1621	Sequence 4859, App
C 865	12.8	67.4	22	6	US-10-310-914A-711259	Sequence 711259,	938	12.8	67.4	592	7	US-11-136-527-5717	Sequence 5717, App
C 866	12.8	67.4	23	6	US-10-310-914A-247442	Sequence 247442,	939	12.8	67.4	592	7	US-11-136-527-5717	Sequence 5717, App
C 867	12.8	67.4	23	6	US-10-310-914A-503254	Sequence 503254,	940	12.8	67.4	598	6	US-10-750-185-4185	Sequence 4185, App
C 868	12.8	67.4	23	6	US-10-310-914A-1061273	Sequence 1061273,	941	12.8	67.4	598	6	US-10-750-623-4185	Sequence 4185, App
C 869	12.8	67.4	24	6	US-10-310-914A-175316	Sequence 175316,	942	12.8	67.4	600	6	US-10-750-185-2266	Sequence 2266, App
C 870	12.8	67.4	24	6	US-10-310-914A-948929	Sequence 948929,	943	12.8	67.4	600	6	US-10-750-185-2637	Sequence 2637, App
C 871	12.8	67.4	25	7	US-11-121-849-99014	Sequence 99014, A	944	12.8	67.4	600	6	US-10-750-185-4175	Sequence 4175, App
C 872	12.8	67.4	25	7	US-11-121-849-110586	Sequence 110586,	945	12.8	67.4	600	6	US-10-750-623-959	Sequence 959, App
C 873	12.8	67.4	25	7	US-11-121-849-132243	Sequence 132243,	946	12.8	67.4	600	6	US-10-750-623-2266	Sequence 2266, App
C 874	12.8	67.4	25	7	US-11-121-849-132244	Sequence 132244,	947	12.8	67.4	600	6	US-10-750-623-2637	Sequence 2637, App
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C 877	12.8	67.4	25	7	US-11-121-849-132247	Sequence 132247,	C 950	12.8	67.4	600	7	US-11-136-527-5456	Sequence 5456, App
C 878	12.8	67.4	25	7	US-11-121-849-171488	Sequence 171488,	C 951	12.8	67.4	600	7	US-11-136-527-6086	Sequence 6086, App
C 879	12.8	67.4	25	7	US-11-121-849-219804	Sequence 219804,	C 952	12.8	67.4	600	7	US-11-128-061-3841	Sequence 3841, App
C 880	12.8	67.4	25	7	US-11-121-849-295453	Sequence 295453,	C 953	12.8	67.4	600	7	US-11-128-061-4446	Sequence 4446, App
C 881	12.8	67.4	25	7	US-11-121-849-461895	Sequence 461895,	C 954	12.8	67.4	600	7	US-11-128-061-4762	Sequence 4762, App
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C 883	12.8	67.4	25	7	US-11-136-527-257847	Sequence 257847,	956	12.8	67.4	617	7	US-11-055-822-193	Sequence 193, App
C 884	12.8	67.4	25	7	US-11-136-527-353571	Sequence 353571,	C 957	12.8	67.4	617	7	US-11-136-527-1360	Sequence 1360, App
C 885	12.8	67.4	28	6	US-10-310-914A-948988	Sequence 948988,	C 958	12.8	67.4	645	6	US-10-750-185-54250	Sequence 54250, A
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C 887	12.8	67.4	83	6	US-10-310-914A-10221	Sequence 10221, A	960	12.8	67.4	687	7	US-11-055-822-191	Sequence 191, App
C 888	12.8	67.4	98	6	US-10-310-914A-4170	Sequence 4170, App	961	12.8	67.4	689	6	US-10-750-185-25973	Sequence 25973, A
C 889	12.8	67.4	201	6	US-10-995-561-10453	Sequence 10453, A	962	12.8	67.4	689	6	US-10-750-623-25973	Sequence 25973, A
C 890	12.8	67.4	201	6	US-10-995-561-10464	Sequence 10464, A	C 963	12.8	67.4	712	6	US-10-750-185-41018	Sequence 41018, A
C 891	12.8	67.4	201	6	US-10-995-561-14915	Sequence 14915, A	C 964	12.8	67.4	712	6	US-10-750-623-41018	Sequence 41018, A
C 892	12.8	67.4	201	6	US-10-995-561-15020	Sequence 15020, A	C 965	12.8	67.4	714	7	US-11-128-061-804	Sequence 804, App
C 893	12.8	67.4	201	6	US-10-995-561-19620	Sequence 19620, A	C 966	12.8	67.4	721	7	US-11-128-061-199	Sequence 199, App
C 894	12.8	67.4	201	6	US-10-995-561-19621	Sequence 19621, A	967	12.8	67.4	768	6	US-10-750-185-53738	Sequence 53738, A
C 895	12.8	67.4	201	6	US-10-995-561-19705	Sequence 19705, A	968	12.8	67.4	768	6	US-10-750-623-53738	Sequence 53738, A
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C 897	12.8	67.4	201	6	US-10-995-561-24789	Sequence 24789, A	970	12.8	67.4	789	6	US-10-750-623-39613	Sequence 39613, A
C 898	12.8	67.4	201	6	US-10-995-561-32396	Sequence 32396, A	971	12.8	67.4	803	7	US-11-136-527-1181	Sequence 1181, App
C 899	12.8	67.4	201	6	US-10-995-561-32456	Sequence 32456, A	972	12.8	67.4	850	6	US-10-750-185-42959	Sequence 42959, A

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973 12.8 67.4 850 6 US-10-750-623-42959 Sequence 42959, A
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976 12.8 67.4 892 6 US-10-750-185-62811 Sequence 62811, A
977 12.8 67.4 892 6 US-10-750-623-62811 Sequence 62811, A
c 978 12.8 67.4 908 6 US-10-750-185-32084 Sequence 32084, A
c 979 12.8 67.4 908 6 US-10-750-623-32084 Sequence 32084, A
c 980 12.8 67.4 963 6 US-10-750-185-51062 Sequence 51062, A
c 981 12.8 67.4 963 6 US-10-750-623-51062 Sequence 51062, A
982 12.8 67.4 993 6 US-10-750-185-47579 Sequence 47579, A
983 12.8 67.4 993 6 US-10-750-623-47579 Sequence 47579, A
984 12.8 67.4 1158 6 US-10-750-185-36816 Sequence 36816, A
985 12.8 67.4 1158 6 US-10-750-623-36816 Sequence 36816, A
986 12.8 67.4 1161 6 US-10-858-730-273 Sequence 273, App
c 987 12.8 67.4 1163 6 US-10-750-185-54463 Sequence 54463, A
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993 12.8 67.4 1199 6 US-10-750-185-48768 Sequence 48768, A
994 12.8 67.4 1199 6 US-10-750-623-48768 Sequence 48768, A
995 12.8 67.4 1222 6 US-10-750-185-54124 Sequence 54124, A
996 12.8 67.4 1222 6 US-10-750-623-54124 Sequence 54124, A
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ALIGNMENTS

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RESULT 1
US-10-750-185-43749
; Sequence 43749, Application US/10750185
; Publication No. US2005026603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43749
; LENGTH: 1606
; TYPE: DNA
; ORGANISM: Bovine 19866880831151
US-10-750-185-43749

Query Match 83.2%; Score 15.8; DB 6; Length 1606;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGACC 19
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Db 1197 GGGGTCTGTCTGGCTGACC 1215

RESULT 2
US-10-750-623-43749
; Sequence 43749, Application US/10750623
; Publication No. US2005028753A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43749
; LENGTH: 1606
; TYPE: DNA
; ORGANISM: Bovine 19866880831151
US-10-750-185-43749

Query Match 83.2%; Score 15.8; DB 7; Length 164527;
Best Local Similarity 89.5%; Pred. No. 93;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGACC 19
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Db 25028 GGGGTCTGTCTGGCTGACC 25046

RESULT 3
US-11-121-086-71
; Sequence 71, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 71
; LENGTH: 164527
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-71

Query Match 83.2%; Score 15.8; DB 7; Length 164527;
Best Local Similarity 89.5%; Pred. No. 93;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGACC 19
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Db 25028 GGGGTCTGTCTGGCTGACC 25046

RESULT 4
US-10-750-185-32137
; Sequence 32137, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43749
; LENGTH: 1606
; TYPE: DNA
; ORGANISM: Bovine 19866880831151
US-10-750-185-43749
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; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-185-32137

Query Match      81.1%; Score 15.4; DB 6; Length 1460;
Best Local Similarity 94.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAG 18
Db      213 GGGTCTGCTCGGCTCAG 229

RESULT 5
US-10-750-623-32137
; Sequence 32137, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-623-32137

Query Match      81.1%; Score 15.4; DB 6; Length 1460;
Best Local Similarity 94.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAG 18
Db      213 GGGTCTGCTCGGCTCAG 229

RESULT 6
US-10-995-561-37164/c
; Sequence 37164, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37164
; LENGTH: 201

; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-185-32137

Query Match      81.1%; Score 15.4; DB 6; Length 1460;
Best Local Similarity 94.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAG 18
Db      213 GGGTCTGCTCGGCTCAG 229

RESULT 5
US-10-750-623-32137
; Sequence 32137, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-623-32137

Query Match      81.1%; Score 15.4; DB 6; Length 1460;
Best Local Similarity 94.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAG 18
Db      213 GGGTCTGCTCGGCTCAG 229

RESULT 6
US-10-995-561-37164/c
; Sequence 37164, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37164
; LENGTH: 201

; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881304139
US-10-750-185-55529

Query Match      78.9%; Score 15; DB 6; Length 992;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 GTCTGCTCGGCTGAG 18
Db      537 GTCTGCTCGGCTGAG 551

RESULT 8
US-10-750-623-55529
; Sequence 55529, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 55529
; LENGTH: 992
; TYPE: DNA
; ORGANISM: Bovine 19866881304139
US-10-750-623-55529

Query Match      78.9%; Score 15; DB 6; Length 992;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 GTCTGCTCGGCTGAG 18
Db      537 GTCTGCTCGGCTGAG 551

RESULT 8
US-10-750-623-55529
; Sequence 55529, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 55529
; LENGTH: 992
; TYPE: DNA
; ORGANISM: Bovine 19866881304139
US-10-750-623-55529
```

```
Query Match      78.9%; Score 15; DB 6; Length 992;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
   |||||
Db 537 GTCTGCTGGCTGAG 551

RESULT 9
US-10-995-561-512
; Sequence 512, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 512
; LENGTH: 1416
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-512

Query Match      78.9%; Score 15; DB 6; Length 1416;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
   |||||
Db 991 GTCTGCTGGCTGAG 1005

RESULT 10
US-10-995-561-511
; Sequence 511, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 511
; LENGTH: 1507
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-511

Query Match      78.9%; Score 15; DB 6; Length 1507;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
   |||||
Db 1082 GTCTGCTGGCTGAG 1096

RESULT 11
US-11-136-527-676/c
; Sequence 676, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 676
; LENGTH: 5841
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-676

Query Match      78.9%; Score 15; DB 7; Length 5841;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 TCTGTCTGGCTGAG 19
   |||||
Db 4550 TCTGTCTGGCTGAG 4536

RESULT 12
US-10-995-561-13370
; Sequence 13370, Application US/109955561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13370
; LENGTH: 14271
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(14271)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13370

Query Match      78.9%; Score 15; DB 6; Length 14271;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
   |||||
Db 7845 GTCTGCTGGCTGAG 7859

RESULT 13
US-10-995-561-13507
; Sequence 13507, Application US/109955561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13507
```



```

; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 81293
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-81293

Query Match      77.9%; Score 14.8; DB 6; Length 201;
Best Local Similarity 88.9%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAG 18
Db 37 GAGGTTTGTCTGGCTGAG 20

RESULT 19
US-10-995-561-81570/c
; Sequence 81570, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 81570
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-81570

Query Match      77.9%; Score 14.8; DB 6; Length 201;
Best Local Similarity 88.9%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAG 18
Db 71 GAGGTTTGTCTGGCTGAG 54

RESULT 20
US-10-995-561-81629/c
; Sequence 81629, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 81629
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-81629

Query Match      77.9%; Score 14.8; DB 6; Length 201;
Best Local Similarity 88.9%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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```

Qy 1 GGGGTCTGTCTGGCTGAG 18
Db 22 GAGGTTTGTCTGGCTGAG 5

RESULT 21
US-10-995-561-81631/c
; Sequence 81631, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 81631
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-81631

Query Match      77.9%; Score 14.8; DB 6; Length 201;
Best Local Similarity 88.9%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAG 18
Db 131 GAGGTTTGTCTGGCTGAG 114

RESULT 22
US-11-136-527-7822/c
; Sequence 7822, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AMI101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7822
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-7822

Query Match      77.9%; Score 14.8; DB 7; Length 600;
Best Local Similarity 88.9%; Pred. No. 3.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGAG 18
Db 343 GAGGTTTGTCTGGCTGAG 326

RESULT 23
US-10-453-372-815
; Sequence 815, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A

```

```
; CURRENT APPLICATION NUMBER: US/10/453.372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 815
; LENGTH: 780
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(780)
US-10-453-372-815

Query Match          77.9%; Score 14.8; DB 6; Length 780;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  2 GGGTCTGCTGGCTGAGC 19
    ||| ||||| ||||| |||
Db   716 GGGCTGTCTGGCTGTGC 733

RESULT 24
US-10-453-372-813
; Sequence 813, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Albrobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453.372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
```

```
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 813
; LENGTH: 840
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2)..(835)
US-10-453-372-813

Query Match          77.9%; Score 14.8; DB 6; Length 840;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  2 GGGTCTGCTGGCTGAGC 19
    ||| ||||| ||||| |||
Db   777 GGGCTGTCTGGCTGTGC 794

RESULT 25
US-10-750-185-59822/c
; Sequence 59822, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59822
; LENGTH: 982
; TYPE: DNA
; ORGANISM: Bovine 19866881203628
US-10-750-185-59822

Query Match          77.9%; Score 14.8; DB 6; Length 982;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  2 GGGTCTGCTGGCTGAGC 19
    ||| ||||| ||||| |||
Db   770 GGGTGTGTCTGGCTAAGC 753

RESULT 26
US-10-750-623-59822/c
; Sequence 59822, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
```

```
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 59822
; LENGTH: 982
; TYPE: DNA
; ORGANISM: Bovine 19866881203628
US-10-750-623-59822

Query Match          77.9%; Score 14.8; DB 6; Length 982;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
DB      770 GGGTGTGCTGTGGCTAAGC 753

RESULT 27
US-10-750-185-31777/c
; Sequence 31777, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: FANTIN, Dennis
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 31777
; LENGTH: 1241
; TYPE: DNA
; ORGANISM: Bovine 19866881038804
US-10-750-185-31777

Query Match          77.9%; Score 14.8; DB 6; Length 1241;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
DB      991 GGGTCTGTATGGCTCAGC 974

RESULT 28
US-10-750-623-31777/c
; Sequence 31777, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 31777
; LENGTH: 1241
; TYPE: DNA
; ORGANISM: Bovine 19866881038804
US-10-750-623-31777

Query Match          77.9%; Score 14.8; DB 6; Length 1241;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
DB      991 GGGTCTGTATGGCTCAGC 974

RESULT 29
US-10-750-185-44852
; Sequence 44852, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 44852
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Bovine 19866881004663
US-10-750-185-44852

Query Match          77.9%; Score 14.8; DB 6; Length 1470;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
DB      431 GGGTCTGTGTGGATGAGC 448

RESULT 30
US-10-750-623-44852
; Sequence 44852, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 44852
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Bovine 19866881004663
US-10-750-623-44852
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; ORGANISM: Bovine 19866881004663
US-10-750-623-44852

Query Match          77.9%; Score 14.8; DB 6; Length 1470;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGAGC 19
Db 431 GGGTCTGTCTGGATGAGC 448

RESULT 31
US-10-750-185-43064
; Sequence 43064, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-185-43064

Query Match          77.9%; Score 14.8; DB 6; Length 1567;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGAGC 19
Db 1091 GGGTGTGTCTGGCTGGC 1108

RESULT 32
US-10-750-623-43064
; Sequence 43064, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-623-43064

Query Match          77.9%; Score 14.8; DB 6; Length 1645;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAG 18
Db 947 GGGATCTTCTGGCTGAG 930

RESULT 34
US-10-750-623-26045/c
; Sequence 26045, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 26045
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Bovine 19866880859222
US-10-750-623-26045

Query Match          77.9%; Score 14.8; DB 6; Length 1645;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

Qy 1 GGGTCTGTCTGGCTGAG 18
947 GGGATCTTTCTGGCTGAG 930
Db

```

RESULT 35
US-10-750-185-58295/c
; Sequence 58295, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 58295
; LENGTH: 1698
; TYPE: DNA
; ORGANISM: Bovine
US-10-750-185-58295

```

```

RESULT 36
US-10-750-623-58295/c
; Sequence 58295, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KEER, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-1
; CURRENT APPLICATION NUMBER: US/10/750.623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 58295
; LENGTH: 1698
; TYPE: DNA
; ORGANISM: Bovine 19866880449195
US-10-750-623-58295

Query March          77.9%; Score 14.8; DB 6; Length 1698;
Best Local Similarity 88.9%; Pred.No.3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

          1 GGGGCTCTGTCTGGCTGAG 18
          |||              |||||

```

```

Db      1228  GGGTCTCTGCTGCTGAG 1211

RESULT 37
US-11-136-527-3748/c
; Sequence 3748, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3748
; LENGTH: 2326
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3748

Query Match          77.9%; Score 14.8; DB 7; Length 2326;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps
0

Qy      1  GGGTCTCTGCTGCTGAG 18
      | | | | | | | | | |
Db      18  GAGGACTCTGCTGCTGAG 1

```

```

RESULT 38
US-11-037-243-18/c
; Sequence 18, Application US/11037243
; Publication No. US20050287546A1
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: WHYTE, DAVID
; APPLICANT: CAENEPEEL, SEAN
; APPLICANT: CHARYDCZAK, GLEN
; APPLICANT: MANNING, GERARD
; APPLICANT: SUDARSANAM, SUCHA
; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214
; CURRENT APPLICATION NUMBER: US/11/037,243
; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: US/09/888,615
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 3372
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-037-243-18

Query Match      77.9%; Score 14.8; DB 7; Length 3372;
Best Local Similarity 88.9%; Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1  GGGGCTCTCTCGGCTGAG 18
          |||||
DB      2974  GGGGCTCTCTAGCTCAG 2957

RESULT 39
US-11-136-527-3726/c
; Sequence 3726, Application US/11136527
; Publication No. US20050287570A1

```

```
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT FILING DATE: 2005-05-25
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3726
; LENGTH: 4854
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-3726

Query Match          77.9%; Score 14.8; DB 7; Length 4854;
Best Local Similarity 88.9%; Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
   |||||
Db 4597 GAGGTTGTCTGGCTGAG 4580

RESULT 40
US-11-000-688-1053/c
; Sequence 1053, Application US/11000688
; Publication No. US20050287544A1
; GENERAL INFORMATION:
; APPLICANT: BERTUCCI, Francois
; APPLICANT: HOULGATTE, Remi
; APPLICANT: BIRNBAUM, Daniel
; TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
; FILE REFERENCE: 1423-R-03
; CURRENT APPLICATION NUMBER: US/11/000,688
; CURRENT FILING DATE: 2004-12-01
; PRIOR FILING DATE: 2003-12-01
; NUMBER OF SEQ ID NOS: 1596
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1053
; LENGTH: 6914
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial sequences:primer
; NAME/KEY: misc_feature
; LOCATION: (1)..(6914)
; OTHER INFORMATION: coagulation factor v (proaccelerin, labile
; OTHER INFORMATION: factor)(F5) gene.
US-11-000-688-1053

Query Match          77.9%; Score 14.8; DB 7; Length 6914;
Best Local Similarity 88.9%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
   |||||
Db 4222 GAGGTTGTCTGGCTGAG 4205

RESULT 41
US-11-124-368A-2925
; Sequence 2925, Application US/11124368A
; Publication No. US2005028759A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
```

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; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2925
; LENGTH: 23046
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20863, 20864, 20865, 20866, 20867, 20868, 20869, 20870, 20871,
; LOCATION: 20872, 20873, 20874, 20875, 20876, 20877, 20878, 20879,
; LOCATION: 20880, 20881, 20882, 20883, 20884, 20885, 20886, 20887,
; LOCATION: 20888, 20889, 20890, 20891, 20892, 20893, 20894, 20895
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20896, 20897, 20898, 20899, 20900, 20901, 20902, 20903, 20904,
; LOCATION: 20905, 20906, 20907, 20908, 20909, 20910, 20911, 20912,
; LOCATION: 20913, 20914, 20915, 20916, 20917, 20918, 20919, 20920,
; LOCATION: 20921, 20922, 20923, 20924, 20925, 20926, 20927, 20928
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20929, 20930, 20931, 20932, 20933, 20934, 20935, 20936, 20937,
; LOCATION: 20938, 20939, 20940, 20941, 20942, 20943, 20944, 20945,
; LOCATION: 20946, 20947, 20948, 20949, 20950, 20951, 20952, 20953,
; LOCATION: 20954, 20955, 20956, 20957, 20958, 20959, 20960, 20961
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20962, 20963, 20964, 20965, 20966, 20967, 20968, 20969, 20970,
; LOCATION: 20971, 20972, 20973, 20974, 20975, 20976, 20977, 20978,
; LOCATION: 20979, 20980, 20981, 20982, 20983, 20984, 20985, 20986,
; LOCATION: 20987, 20988, 20989, 20990, 20991, 20992, 20993, 20994
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20995, 20996, 20997, 20998, 20999, 21000, 21001, 21002, 21003,
; LOCATION: 21004, 21005, 21006, 21007, 21008, 21009, 21010, 21011,
; LOCATION: 21012, 21013, 21014, 21015, 21016, 21017, 21018, 21019,
; LOCATION: 21020, 21021, 21022, 21023, 21024, 21025, 21026, 21027
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 21028, 21029, 21030, 21031, 21032, 21033, 21034, 21035, 21036,
; LOCATION: 21037, 21038, 21039, 21040, 21041, 21042, 21043, 21044,
; LOCATION: 21045, 21046, 21047, 21048, 21049, 21050, 21051, 21052,
; LOCATION: 21053, 21054, 21055, 21056, 21057, 21058, 21059, 21060
; OTHER INFORMATION: n = A,T,C or G
US-11-124-368A-2925

Query Match          77.9%; Score 14.8; DB 7; Length 23046;
Best Local Similarity 88.9%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCGTCTGGCTGAGC 19
   |||||
Db 20333 GGGTCGTCTGGCTGAGC 20350

RESULT 42
US-10-962-756A-1
; Sequence 1, Application US/10962756A
; Publication No. US2005025548A1
; GENERAL INFORMATION:
; APPLICANT: Aerossens, Jeroen
```

```
; APPLICANT: Athanasiou, Maria
; APPLICANT: Brain, Carlos
; APPLICANT: Cohen, Nadine
; APPLICANT: Dain, Bradley
; APPLICANT: Denton, R. Rex
; APPLICANT: Judson, Richard S.
; APPLICANT: Ozdemir, Vural
; APPLICANT: Reed, Carol R.
; TITLE OF INVENTION: NTRK1 Genetic Markers Associated with Age of Onset of Alzheimer's
; FILE REFERENCE: 2300.0020001
; CURRENT APPLICATION NUMBER: US/10/962.756A
; CURRENT FILING DATE: 2004-10-13
; PRIOR APPLICATION NUMBER: US 60/511,247
; PRIOR FILING DATE: 2003-10-15
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 23459
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1804)..(1804)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 'a'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8872)..(8872)
; OTHER INFORMATION: n is the reference allele 't' which can also be the variant
; OTHER INFORMATION: allele 'c'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (9166)..(9166)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (12699)..(12699)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 'a'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (17145)..(17145)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (17258)..(17258)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 'a'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (19819)..(19819)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (19833)..(19833)
; OTHER INFORMATION: n is the reference allele 't' which can also be the variant
; OTHER INFORMATION: allele 'c'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (19943)..(19943)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (19971)..(19971)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20020)..(20020)
```

```
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20800)..(20800)
; OTHER INFORMATION: n is the reference allele 't' which can also be the variant
; OTHER INFORMATION: allele 'c'
; US-10-962-756A-1
```

```
Query Match 77.9%; Score 14.8; DB 6; Length 23459;
Best Local Similarity 88.9%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 7694 GGGGTCGTCTGGCTGAG 7711
```

RESULT 43

```
US-10-995-561-13494/c
; Sequence 13494, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13494
; LENGTH: 84409
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-995-561-13494
```

```
Query Match 77.9%; Score 14.8; DB 6; Length 84409;
Best Local Similarity 88.9%; Pred. No. 2.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 51616 GAGGTTTGTCGTGGCTGAG 51599
```

RESULT 44

```
US-10-995-561-13331/c
; Sequence 13331, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13331
; LENGTH: 98716
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-995-561-13331
```

```
Query Match 77.9%; Score 14.8; DB 6; Length 98716;
Best Local Similarity 88.9%; Pred. No. 2.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAG 18
| | | | | | | | | | | | | | | |
```

Db 12084 GTGGTCTGTGGCTGTG 12067

RESULT 45

US-11-121-086-75/c

; Sequence 75, Application US/11121086

; Publication No. US20050266459A1

; GENERAL INFORMATION:

; APPLICANT: POULSEN, TIM S.

; APPLICANT: NIELSEN, KIRSTEN V.

; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES

; FILE REFERENCE: 09138 6000-00000

; CURRENT APPLICATION NUMBER: US/11/121,086

; PRIOR FILING DATE: 2005-05-04

; PRIOR FILING DATE: 2004-05-04

; NUMBER OF SEQ ID NOS: 107

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 75

; LENGTH: 161874

; TYPE: DNA

; ORGANISM: Homo sapiens

US-11-121-086-75

Query Match 77.9%; Score 14.8; DB 7; Length 161874;

Best Local Similarity 88.9%; Pred. No. 2.6e+02;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGAG 18

Db 151577 GGGGCTGTCTGGCTGAG 151560

RESULT 46

US-10-310-914A-1350864/c

; Sequence 1350864, Application US/10310914A

; Publication No. US2006000322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1350864

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1350864

Query Match 75.8%; Score 14.4; DB 6; Length 20;

Best Local Similarity 93.8%; Pred. No. 6.2e+02;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTG 16

Db 18 GGGGCTGTCTGGCTG 3

RESULT 47

US-10-750-185-47917/c

; Sequence 47917, Application US/10750185

; Publication No. US20050260603A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

; FILE REFERENCE: MM1100-1

; CURRENT APPLICATION NUMBER: US/10/750,623

; CURRENT FILING DATE: 2003-12-31

; PRIOR FILING DATE: 2002-12-31

; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 47917

; LENGTH: 1116

; TYPE: DNA

; ORGANISM: Bovine

US-10-750-185-47917

Query Match 75.8%; Score 14.4; DB 6; Length 1116;

Best Local Similarity 93.8%; Pred. No. 5.2e+02;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GGTCTCTCTGGCTGAG 18

Db 1054 GTTCTGTCTGGCTGAG 1039

RESULT 48

US-10-750-623-47917/c

; Sequence 47917, Application US/10750623

; Publication No. US20050287531A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

; APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

; FILE REFERENCE: MM1100-1

; CURRENT APPLICATION NUMBER: US/10/750,623

; CURRENT FILING DATE: 2003-12-31

; PRIOR FILING DATE: 2002-12-31

; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 47917

; LENGTH: 1116

; TYPE: DNA

; ORGANISM: Bovine

US-10-750-623-47917

Query Match 75.8%; Score 14.4; DB 6; Length 1116;

Best Local Similarity 93.8%; Pred. No. 5.2e+02;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GGTCTCTCTGGCTGAG 18

Db 1054 GTTCTGTCTGGCTGAG 1039

RESULT 49

US-11-037-243-47/c

; Sequence 47, Application US/11037243

; Publication No. US20050287546A1

; GENERAL INFORMATION:

; APPLICANT: FLOWMAN, GREGORY

; APPLICANT: WHYTE, DAVID

; APPLICANT: CAENEPEEL, SEAN

; APPLICANT: CHARYDCZAK, GLEN

; APPLICANT: MANNING, GERARD

; APPLICANT: SUDARSANAM, SUCHA

; TITLE OF INVENTION: NOVEL PROTEASES

; FILE REFERENCE: 038602/1214

; CURRENT APPLICATION NUMBER: US/11/037,243

; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: US/09/888,615
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 47
; LENGTH: 1671
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-037-243-47

Query Match 75.8%; Score 14.4; DB 7; Length 1671;
Best Local Similarity 93.8%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTCTCTGGCTGA 17
|||||
Db 362 GGGTCTCTCTGGCTTA 347

RESULT 50
US-10-821-234-424/c
; Sequence 424, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 424
; LENGTH: 2337
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-424

Query Match 75.8%; Score 14.4; DB 6; Length 2337;
Best Local Similarity 93.8%; Pred. No. 5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTCTCTGGCTG 16
|||||
Db 950 GGGGTCTCTCTGGCTG 935

Search completed: January 11, 2006, 05:11:00
Job time : 414.949 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 18:27:38 ; Search time 278 Seconds
(without alignments)
8606.468 Million cell updates/sec

Title: US-09-869-169C-19
Perfect score: 1346
Sequence: 1 ggaagcaactcatgtcca.....gaagaaggcaagtggcgatg 1346

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/prodata/1/ina/1_COMB.seq: *
2: /cgn2_6/prodata/1/ina/5_COMB.seq: *
3: /cgn2_6/prodata/1/ina/6A_COMB.seq: *
4: /cgn2_6/prodata/1/ina/6B_COMB.seq: *
5: /cgn2_6/prodata/1/ina/H_COMB.seq: *
6: /cgn2_6/prodata/1/ina/PCUS_COMB.seq: *
7: /cgn2_6/prodata/1/ina/PP_COMB.seq: *
8: /cgn2_6/prodata/1/ina/RE_COMB.seq: *
9: /cgn2_6/prodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1346	100.0	103934	3	US-09-949-016-14433 Sequence 14433, A
2	1179.2	87.6	1254	3	US-10-085-612A-4 Sequence 4, Appli
3	1072.6	79.7	35803	3	US-09-949-016-11863 Sequence 11863, A
4	1072.6	79.7	35804	3	US-09-949-016-12962 Sequence 12962, A
5	480.6	35.7	601	3	US-09-949-016-93499 Sequence 93499, A
6	454	33.7	31197	3	US-09-949-016-12963 Sequence 12963, A
7	439.2	32.6	1345	3	US-09-372-339-2 Sequence 2, Appli
8	438.8	32.6	1345	3	US-09-144-367-3 Sequence 3, Appli
9	438.8	32.6	1345	3	US-10-085-612A-3 Sequence 3, Appli
10	437.6	32.5	1345	3	US-09-372-339-1 Sequence 1, Appli
11	430.2	32.0	34172	3	US-09-949-016-14432 Sequence 14432, A
12	290.6	21.6	601	3	US-09-949-016-20240 Sequence 20240, A
13	290.6	21.6	601	3	US-09-949-016-42446 Sequence 42446, A
14	169.2	12.6	7678	3	US-09-573-080A-348 Sequence 348, App
15	167.2	12.4	1055	3	US-09-573-080A-73 Sequence 73, Appl
16	160.8	11.9	601	3	US-09-949-016-149661 Sequence 149661, A
17	160.4	11.9	71387	3	US-09-949-016-16754 Sequence 16754, A
18	159.6	11.9	149543	3	US-09-949-016-15947 Sequence 15947, A
19	157.2	11.7	89584	3	US-09-949-016-17068 Sequence 17068, A
20	156.4	11.6	145241	3	US-09-949-016-17394 Sequence 17394, A
21	156.4	11.6	145241	3	US-09-949-016-17395 Sequence 17395, A
22	155.6	11.6	294836	3	US-09-949-016-15974 Sequence 15974, A
23	154	11.4	35058	3	US-09-949-016-12607 Sequence 12607, A
24	154	11.4	35059	3	US-09-949-016-13831 Sequence 13831, A

RESULT 1
US-09-949-016-14433
; Sequence 14433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14433
; LENGTH: 103934
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(103934)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14433

Query Match	100.0%;	Score 1346;	DB 3;	Length 103934;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1346;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GGAGCAACTACATGTCCATCAACAGATGAATGGTAAAGAGTACTTCACTTATGCA	60	
DB	85230	GGAGCAACTACATGTCCATCAACAGATGAATGGTAAAGAGTACTTCACTTATGCA	85289	
QY	61	CAATGAGTACAAATTCAGCCATGAAAGAGCATGAGATCCTGTCTTTTATAAAGCTGG	120	
DB	85290	CAATGAGTACAAATTCAGCCATGAAAGAGCATGAGATCCTGTCTTTTATAAAGCTGG	85349	
QY	121	CTGGAACTCAGGTCAATTATGTTAGTAAATAAGCCAGGCACAAAGACAGACATTGC	180	
DB	85350	CTGGAACTCAGGTCAATTATGTTAGTAAATAAGCCAGGCACAAAGACAGACATTGC	85409	
QY	181	ATGTTCTCACTTATTTTGTGGATCTACAATCAAAACAATTGAGCTAATGTCTGGGTCTT	240	

Db 85410 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATTGAGCTAAATCTCTGGGTCTT 85469
Qy 241 AGTCATTTTGTACCTTAAGTCACAGGAGCACAGCCATTAGAATACATGATGATCTTT 300
Db 85470 AGTCATTTTGTACCTTAAGTCACAGGAGCACAGCCATTAGAATACATGATGATCTTT 85529
Qy 301 AATACAGGAATGAATAGTGTGAGAGGCACAGGTGTTGGGTGTTCTTCTGATACATAGTA 360
Db 85530 AATACAGGAATGAATAGTGTGAGAGGCACAGGTGTTGGGTGTTCTTCTGATACATAGTA 85589
Qy 361 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCATGATGTTACCTT 420
Db 85590 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCATGATGTTACCTT 85649
Qy 421 CTGAGGAATTAAGTGGGAGACATGCTCTCTATTTTCTTCTTGGCAGACAGCAAT 480
Db 85650 CTGAGGAATTAAGTGGGAGACATGCTCTCTATTTTCTTCTTGGCAGACAGCAAT 85709
Qy 481 TGCATTAGTTGGGAAACAGTCTGCTGCTGCTGCTGAGCCCAAGCAACATTAGTCTATTG 540
Db 85710 TGCATTAGTTGGGAAACAGTCTGCTGCTGCTGCTGAGCCCAAGCAACATTAGTCTATTG 85769
Qy 541 CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCAACCAAGTCAA 600
Db 85770 CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCAACCAAGTCAA 85829
Qy 601 CTCACCAACATTTCTGTTCAACCCACCATGTGTACAGTACCTGCTAGGCTCCAGGTCA 660
Db 85830 CTCACCAACATTTCTGTTCAACCCACCATGTGTACAGTACCTGCTAGGCTCCAGGTCA 85889
Qy 661 TGAAGTAAATTAATACACAGACTGTGCCCTTGAGGAACTCACCTCTGCTAAAGGGAACAGG 720
Db 85890 TGAAGTAAATTAATACACAGACTGTGCCCTTGAGGAACTCACCTCTGCTAAAGGGAACAGG 85949
Qy 721 CACAGAAACCCACAGGGTGTGAGAGGAAATAGGCAATAGGACTGTGTGAGGGGGAT 780
Db 85950 CACAGAAACCCACAGGGTGTGAGAGGAAATAGGCAATAGGACTGTGTGAGGGGGAT 86009
Qy 781 AGGAGGCCACACAGAGGAGGAATGGTTACATCTGTGTGAGGAGTTGGTAAGGNAAGCT 840
Db 86010 AGGAGGCCACACAGAGGAGGAATGGTTACATCTGTGTGAGGAGTTGGTAAGGNAAGCT 86069
Qy 841 TTAATAGAAGGGGTCTGTCTGGCTGGGCTTGCAGAGGATGTGAGGAGTCACTAGGGGGC 900
Db 86070 TTAATAGAAGGGGTCTGTCTGGCTGGGCTTGCAGAGGATGTGAGGAGTCACTAGGGGGC 86129
Qy 901 ACAAGTACACTCCAGGCAGAGGGAATTCATGCGTAAAGATCTCAGTTGTGGCTTTGG 960
Db 86130 ACAAGTACACTCCAGGCAGAGGGAATTCATGCGTAAAGATCTCAGTTGTGGCTTTGG 86189
Qy 961 GGATGGATTTCAAGTATTTCTGGAATGAGACAGCCATGGAAACAGGGCAGGTGAGAGGA 1020
Db 86190 GGATGGATTTCAAGTATTTCTGGAATGAGACAGCCATGGAAACAGGGCAGGTGAGAGGA 86249
Qy 1021 TATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCG 1080
Db 86250 TATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCG 86309
Qy 1081 TGGACTCCCTGATAAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAATCTCAAA 1140
Db 86310 TGGACTCCCTGATAAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAATCTCAAA 86369
Qy 1141 GGAGGTAAGCAAGGGGTGTGCGATTTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
Db 86370 GGAGGTAAGCAAGGGGTGTGCGATTTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 86429
Qy 1201 CTTTCTCCAGCACATAAACTTTGAGCAGCTTGAACCTTAAGACTGCTGTGAGGGCAGGGA 1260
Db 86430 CTTTCTCCAGCACATAAACTTTGAGCAGCTTGAACCTTAAGACTGCTGTGAGGGCAGGGA 86489
Qy 1261 TGCTCCAGGCAGACAGCCCAAGAAACAAACAGACACAGCTGAAGTGAAGTCTCAGAGGAG 1320
Db 86490 TGCTCCAGGCAGACAGCCCAAGAAACAAACAGACACAGCTGAAGTGAAGTCTCAGAGGAG 86549

Qy 1321 ACAGTTGAAGAGGCAAGTGGCGATG 1346
Db 86550 ACAGTTGAAGAGGCAAGTGGCGATG 86575

RESULT 2

US-10-085-612A-4
; Sequence 4, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburg, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612A-4

Query Match 87.6%; Score 1179.2; DB 3; Length 1254;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1181; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 163 CACAAAGACAGACATTCATGTTCTCTCACTTATTGTGGGATCTACAATCAAAACAATTG 222
Db 3 CACAAAGACAGACATTCATGTTCTCTCACTTATTGTGGGATCTACAATCAAAACAATTG 62
Qy 223 AGCTAATGTCGTGGTCTTAGTCAATTTTGTACCTAAGTACAGGAGCACAGCATTAGA 282
Db 63 AGCTAATGTCGTGGTCTTAGTCAATTTTGTACCTAAGTACAGGAGCACAGCATTAGA 122
Qy 283 ATACATGATCAATGCTTTAATACAGGAATCAATAGGTGAGAGCACAGGGTGGTGGTG 342
Db 123 ATACATGATCAATGCTTTAATACAGGAATCAATAGGTGAGAGCACAGGGTGGTGGTG 182
Qy 343 TTCTTCTGATACATAGTATCTTCTTGACACATTCAGTCAAACTCTCAACAGGTAAGTCT 402
Db 183 TTCTTCTGATACATAGTATCTTCTTGACACATTCAGTCAAACTCTCAACAGGTAAGTCT 242
Qy 403 CTTCAATGATGTTACCTTCTGAGGAATTAAGTGCAGAAATAGCCTTCTATTATTTTCT 462
Db 243 CTTCAATGATGTTACCTTCTGAGGAATTAAGTGCAGAAATAGCCTTCTATTATTTTCT 302
Qy 463 TTGCAGAACAGCAATTCATTTAGTTGGAAACAGTGTGCTGCTGATCTGAGCCCCAA 522
Db 303 TTGCAGAACAGCAATTCATTTAGTTGGAAACAGTGTGCTGCTGATCTGAGCCCCAA 362
Qy 523 GCAACCAATAGTCTATTGCTATCACACAGACTCAGAGGGGATGACACAGGGGGCCAG 582
Db 363 GCAACCAATAGTCTATTGCTATCACACAGACTCAGAGGGGATGACACAGGGGGCCAG 422
Qy 583 CAATCTCACCAAGTCAATCTCCACCAATTTCTGGTCAACCAATGTGTACAGTACCC 642
Db 423 CAATCTCACCAAGTCAATCTCCACCAATTTCTGGTCAACCAATGTGTACAGTACCC 482
Qy 643 TGCTAGGGTCCAGGGTCAATGAAGTAAATATACAGACTGTGCTGCTTGGAGAACTCACC 702
Db 483 TGCTAGGGTCCAGGGTCAATGAAGTAAATATACAGACTGTGCTGCTTGGAGAACTCACC 542

QY 703 TCTGCTAAGGGAACAGGCACAGAACCCACAGAGGTGGTAGAGAGAAATAGGACAATA 762
DB 543 TCTGCTAAGGGAACAGGCACAGAACCCACAGAGGTGGTAGAGAGAAATAGGACAATA 602
QY 763 GGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGAAATGGTTACATCTGTGTGAGGA 822
DB 603 GGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGAAATGGTTACATCTGTGTGAGGA 662
QY 823 GGTGTGTAAGGAAGACTTTAATAGAGGGGTCTGTCTGGCTGGGCTTGCAGAGGATGTGT 882
DB 663 GGTGTGTAAGGAAGACTTTAATAGAGGGGTCTGTCTGGCTGGGCTTGCAGAGGATGTGT 722
QY 883 AGAGTCACTAGGGGGCAGAGTACACTCCAGGAGAGGAAATGCATGGGTAAAGATC 942
DB 723 AGAGTCACTAGGGGGCAGAGTACACTCCAGGAGAGGAAATGCATGGGTAAAGATC 782
QY 943 TGCAGTTGTGGCTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGAAA 1002
DB 783 TGCAGTTGTGGCTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGAAA 842
QY 1003 CAAGGCGAGGTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTG 1062
DB 843 CAAGGCGAGGTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTG 902
QY 1063 ATAAGAACTCAGGTTCCGTGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTCGCC 1122
DB 903 ATAAGAACTCAGGTTCCGTGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTCGCC 962
QY 1123 ATAGAATATGAACCTCAAGAGGATTAAGCAAGGGGTGTGCGATTTCTTTGCTACTGGCT 1182
DB 963 ATAGAATATGAACCTCAAGAGGATTAAGCAAGGGGTGTGCGATTTCTTTGCTACTGGCT 1022
QY 1183 GCAGCTGCAGCCCCACCTCTCTCCAGCACAATAAATTTTCAGCAGCTTGACCTAAGAC 1242
DB 1023 GCAGCTGCAGCCCCACCTCTCTCCAGCACAATAAATTTTCAGCAGCTTGACCTAAGAC 1082
QY 1243 TGCCTGTGAGGGCAGGATGCTCCAGCAGACAGCCAGCAACACAGCAGCAGCTGA 1302
DB 1083 TGCCTGTGAGGGCAGGATGCTCCAGCAGACAGCCAGCAACACAGCAGCAGCTGA 1142
QY 1303 AAGTAAGACTCAGAGGAGCAGTTGAAGAGGCAAGTGGCGATG 1346
DB 1143 AAGTAAGACTCAGAGGAGCAGTTGAAGAGGCAAGTGGCGATG 1186

RESULT 3

US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11863

Query Match 79.7%; Score 1072.6; DB 3; Length 35803;
Best Local Similarity 89.8%; Pred. No. 0;
Matches 1210; Conservative 0; Mismatches 124; Indels 13; Gaps 5;

QY 1 GGAAGCAACCTCATGTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 60
DB 756 GGAAGCAACCTAAGTGTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 815
QY 61 CAATGAGTACAAATTCAGCCATGAAGAAAGCATGAGATCCTGCTTTTATAATAAGCTGG 120
DB 816 CAATGAGTACAAATTCAGCCATGAAGAAAGCATGAGATCCTGTTATCTGTATAATATGG 875
QY 121 CTGGAACTGCGAGTCAATATATGTTAGTAAATAAGCCAGGACACAGAAAGACAGATTC 180
DB 876 ATGGAACCTGGAGTCAATCATGTTAAGTGAATAAGCCAGGACACAGATATTC 935
QY 181 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAAATGCTGGCTTT 240
DB 936 AAGTTCTCACATCTTGTGGGATCTACAAATCAAAACAACTGAGCTAAATGCTGGGCTTT 995
QY 241 AGTCAATTTGTACCTTAAGTACAGGAGCAGCCATTAAGATACATGATGAATGCTCTTT 300
DB 996 AGTCACTGTGTACCC - AAGTACTGGAGCAGACTTTTAAATACATCATGATGCTTTT 1054
QY 301 AATACAGGAATGAATAGGTGAGAGGACAGGGTGGTGGTGTCTTCTGATACATAGTA 360
DB 1055 AATACAGGAATGAATAGGTGAGAGGACAGAACTGGTGGTGGTCTTCTGATACATAGTA 1114
QY 361 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCATG - TATGTTACCT 419
DB 1115 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCTCATGTTATGTTACCT 1174
QY 420 TCTGAGGAATTAAGTGGCAGAACATGCCCTTCTATATTTTCTTTTCAGAACAAAGACCA 479
DB 1175 TATGAGGAATTAAGTGGCAGAACATGATTTCTATATTTTCTTTTCAGAACAAAGACCA 1234
QY 480 TTGCATTAAGTGGGAAACAGTGTGCTGCATCTGAGCCCCCAAGCAACCACTAGTCTATT 539
DB 1235 CTTTATTAGTTGGGACACAGTG - TGGCTGCAATTTGAGTCCCAGCAACCACTAGTCTATT 1293
QY 540 GTATCACACAGACTCAGAGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCA 599
DB 1294 GCTATCACACAGACTCAGAGGGGATGAGC - - - - -GCCCAAGCAATCTCACCAAGACA 1347
QY 600 ACTCCACCAACATTTCTGGTCAACCCACCATGTGTACAGTACCCTGCTAGGCTCAGGGTC 659
DB 1348 ACTCCACCAACATTTCTGGTCAACCCACCATGTGTACAGTACCCTGCTAGGAAACAGGTC 1407
QY 660 ATGAAAGTAAATAATACAGACTGTGCTTTCAGGAACTCACCTCTGCTAAGGGAACAG 719
DB 1408 ATGAAAGTAAATAATACAGACTGTGCTTTCAGGAGCTCACCTCTGCTAAGGGAACAG 1467
QY 720 GCACAGAAACCCACAGGGTGTGAGAGGAAATAGGACAAATAGGACTGTGTAGGGGGA 779
DB 1468 GCATAGAAACTTACAATGTTGTTAGAGAAAGAGGACAAATAGGACTGTGTAGGGGGA 1527
QY 780 TAGGAGCACCCAGAGGAGGAAATGTTACATCTGTGTGAGGAGTTGTTAAGGAAAGAC 839
DB 1528 TAGGAGCACCCAGAGGAGGAAATGTTTACATTTGTGTGAGGAGTTGTTAAGGAAAGAT 1587
QY 840 TTTAATAGAGGGGTCTGTCTGGCTTGCAGGATGTGTAGGAGTCACTAGGGGG 899
DB 1588 TTTAGCAGAGGGGTCTGTCTGGCTTGGAGGATACGTAGGAGTCACTAGAGGG 1647
QY 900 CACAAAGTACATCCAGGACAGAGGAAATTCATGCGGTAAAGATCTGCAGTTGTGGCTTGTG 959
DB 1648 CACAGGTACATCCAGGACAGAGGAAATTTGTTGTTGAGTAAAGATGTGTAGGTTGTG 1707
QY 960 GGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACAGGCGGTGAGAGG 1019
DB 1708 AGGATGGATTTCAATTTATTTCTAGAATGAAGGAGCAGCCATGG - - - - -AGGGGAGGTGAGAGG 1763
QY 1020 ATATTTAAGAGGCTTCATGCCAATGGCTCCACTTTCAGTTTCTGATAGAACTCAGGTTC 1079
DB 1764 AGGTTAATAGATTTCTATGCCAATGGCTCCACTTTCAGTTTCTGATAGAAACCCAGAACCC 1823

; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93499
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-93499

Query Match 35.7%; Score 480.6; DB 3; Length 601;
Best Local Similarity 91.3%; Pred. No. 2.3e-144; Mismatches 34; Indels 18; Gaps 3;
Matches 549; Conservative 0; Mismatches 34; Indels 18; Gaps 3;
QY 177 TTGCATGTTCTCACTATTGTGGGATCTCAAAATCAAAACAAATGAGCTAATGTCCTGGG 236
DB 601 TTGCATGTTCTCACTATTGTGGGATCTCAAAATCAAAACAAATGAGCTAATGTCCTGGG 542
QY 237 TCTTAGTCAATTTGTACCTTAAGTACAGGAGCAGACAGCCATTAGAAATACATGATGAATG 296
DB 541 TCTTAGTCAATTTGTACCTTAAGTACAGGAGCAGACAGCCATTAGAAATACATGATGAATG 482
QY 297 CTTTAATACAGGAATGAATAGTGAGAGGCACAGGGTG--GTTGGGTGTTCTTCTGATAC 354
DB 481 CTTTAATACAGGAATGAATAGTAAGAGGCACAGGGTGCCCTCTGGGTGTTCTTCTGATAC 422
QY 355 ATAGTATCTTCTTGTGACACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCAATG-TATG 413
DB 421 ATAGTATCTTCTTGTGACACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCAATG-TATG 362
QY 414 TTACCTTCTGAGGAATTAAGTGAGCAACATGCTTCTATATATTTTCTTCTTGTGAGAACAA 473
DB 361 TTACCTTCTGAGGAATTAAGTGAGCAACATGCTTCTATATATTTTCTTCTTGTGAGAACAA 302
QY 474 GACCAATTCATTAAGTGGGAAACAGTCTGGCTGCACTGAGCCCAAGCAACCATTAG 533
DB 301 GACCAATTCATTAAGTGGGAAACAGTCTGGCTGCACTGAGCCCAAGCAACCATTAG 242
QY 534 TCTATTG-----CTATCACCACAGACTCAGAGGGGATGACACACAGGGG 578
DB 241 TCTATTGCTGAGATTAATAGTCTATTCTTACAGACTTAGAGGGGATGACACACAGGGG 182
QY 579 CCAGCAATTCACCCAAAGTCAACTCCACCAACATTTCTGGTCAACCCACCATGTGTACAGT 638
DB 181 CCAGCAATTCACCCAAAGTCAACTCCACCAACATTTCTGGTCAACCCACCATGTGTACAGT 122
QY 639 ACCCTGTAGGTTCCAGGTCATGAAGTAATAATACACAGACTGTGCCCTTGAAGACT 698
DB 121 ACCCTGTAGGTTCCAGGTCATGAAGTAATAATACACAGACTGTGCCCTTGAAGACT 62
QY 699 CACCTCTGTGAAGGAAACAGGACAGAAACCCACAGGGTGGTAGAGAGAAATAGGAC 758
DB 61 CACCTCTGTGAAGGAAACAGGACAGAAACCCACAGGGTGGTAGAGAGAAATAGGAC 2
QY 759 A 759
DB 1 A 1

RESULT 6

US-09-949-016-12963

; Sequence 12963, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12963
; LENGTH: 31197
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-12963

Query Match 33.7%; Score 454; DB 3; Length 31197;
Best Local Similarity 76.9%; Pred. No. 9.2e-135;
Matches 663; Conservative 0; Mismatches 125; Indels 74; Gaps 6;
QY 544 TCACCAAGAGTCTCAGAGGGATGACACACAGGGGCCAGCAATCTCAACCAAGTCAACTC 603
DB 1261 TCACCAAGAGTCTCAGAGGGATGACATGACAGCCCTGTTAGGACACAGGCCATGA 1320
QY 604 CACCAACATTTCTGGTCACCCACCATGTTGACAGTACCCCTGCTAGGGTCCAGGGTCATGA 663
DB 1321 CACCAAGTCTTCTAGTTGGCCACTGTTGTACAGCAGCCCTGTTAGGACACAGGCCATGA 1380
QY 664 AAGTAATATACCAACTGTGCTTGGAGAACTACCTCTGCTAAGGAAACAGGCAC 723
DB 1381 CAGGGAATAGACTAGACTATGCCCTTGGAGAGTCACTCCTCTGTTACAGGAAACAGGCGT 1440
QY 724 AGAAACCCACAGGGTGGTAGAGGAAATAGGACAAATAGGACATGCTGTGTAGGGGGATAGG 783
DB 1441 GGAA--CACATGGTGGTAAGAGGAAAGAGCAATAGGATTCATGAAAGGGATGGA 1498
QY 784 AGCACCACAGAGGAGAAATGGTTACATCTGTGTAGGAGGTTGGTAAGGAAAGACTTTA 843
DB 1499 AAGTGGCCAGGGAGGAAATGGTTACATCTGTGTAGGAGTGGTGGAGGAAAGACTCTA 1558
QY 844 ATAGAGGGGTCTGTCTGGCTGGCTTGCAGAGATGTGTAGGAGTCACTTAGGGGGCACA 903
DB 1559 AGAGAA--GGCTCTGTCTGTGGGTTTGGAAAGGATGTGTAGGAGTCTTCTAGGGGGCACA 1617
QY 904 AGTACACTCCAGGCACAGGGAAATTCATGGGTAAAGATCTGCAGTGTGTGGCTTGTGGGA 963
DB 1618 GGCACTCTCAG-----GCATAGGTAAGATCTGTAGGTGTGGCTTGTGGGA 1665
QY 964 TGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACCAAGGGCAGAGGTGAGAGGATAT 1023
DB 1666 TGAATTTCAAGTATTTTGGATGAGGACAGCCATAGAGCAAGGGCAAGAGAGGCGAT 1725
QY 1024 TTAAGAGGCTTCATGCAATGGCTCCAATTCAGTTTCTGATTAAGAACTCAAGTTCCTGG 1083
DB 1726 TTAATAGATTTTATGCAATGGCTCCAATTCAGTTTCTGATTAAGAAACCCAGAACCCCTTGG 1785
QY 1084 ACTCCCTGATAAAGTAAAGTGTGTTATGATTCCTCCATCAATTAAGTCAAGTCAAGGA 1143
DB 1786 ACTCCCAAGTAAAGTGTGTTATGATTCCTCCATCAATTAAGTCAAGTCAAGGA 1845
QY 1144 GGTAAAG--CAAGGGGTGTGTGCCATTTCTT----- 1171
DB 1846 GGTCAAGT 1905
QY 1172 -----TGCTACTGGCTGACAGTGTGACAGCCCACTCTCTTC 1205

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Db 1906 AACTGCAGGACAGACAGAGTGGCCCTGCTACTGGCTGCAGCTCCAGCCCTGCCTCCTTC 1965
Qy 1206 TCAGACATATAAATTTTCAGCAGCTTGACCTAA-GACTGCTGTGACGGCAGGGATGCT 1264
Db 1966 TCTAGCATATAAACAATCCACAGCCCTCATCTGATCTACTGCTGTGACGGCAGGAAGCT 2025
Qy 1265 CCAGGACAGACGCCAGCAACAACACAGCACACAGCTGAAAGTAAAGACTTCAGAGGAGACAG 1324
Db 2026 CCATGCACATAGCCAGCAAGAGCAACACAGAGCTGAAAGGAAGACTTCAGAGGAGAGAG 2085
Qy 1325 TTGAAGAGCAAGTGGCGATG 1346
Db 2086 ATAAGTAAGGAAATAGTGATG 2107

RESULT 7
US-09-372-339-2
; Sequence 2, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; EARLIER FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin ver. 2.0
; SEQ ID NO 2
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-2

Query Match 32.6%; Score 439.2; DB 3; Length 1345;
Best Local Similarity 76.7%; Pred. No. 8.4e-131;
Matches 647; Conservative 0; Mismatches 123; Indels 74; Gaps 6;

Qy 562 GGATGACACACAGGGGCCAGCAATCTCACCAAGTCAACTCCACCAACATTTCTGTGCA 621
Db 382 GGATGACATAGCAGAGGGCCAGCAATCTCAGTAAGTCAACTCCACCAAGCCTTTCTAGTG 441
Qy 622 CCACACCATGTGTACAGTACCTGTAGGGTCCAGGGTCACTCAAGTCACTCCACCAACATTTCTGTGCA 621
Db 442 CCCACTGTGTACAGACAGGGGCCAGCAATCTCAGTAAGTCACTCCACCAAGCCTTTCTAGTG 441
Qy 682 TGTGCCCTTGAGGAACTCACCTCTGTAGGGTCCAGGGTCAATGAAAGGAGTCTGCTG 861
Db 502 TATGCCCTTGAGGAGCTCACCTCTGTTTCCAGGAAACAGGGCGTGGAAA--CACAAATGGTGG 559
Qy 742 TAGAGAGAAATAGGAACTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAA 801
Db 560 TAAAGAGAAATAGGAACTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAA 619
Qy 802 ATGGTTACATCTGTGTAGGAGTGTGTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 861
Db 620 ATGGTTACATCTGTGTAGGAGTGTGTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 678
Qy 862 GCTGGGCTTGCAAGGATGTGTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 921
Db 679 TCTGGGTTTGAAGATGTGTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 732
Qy 922 GGAATTCATGGTAAAGATCTGAGTGTGGCTGTGGGATGGGATTTCAAGTATTTCTG 981
Db 733 -----GCATAGGTAAAGATCTGTAGGTGTGGCTGTGGGATGAAATTTCAAGTATTTTGT 786
Qy 982 GAATGAAGACAGCCATCGAAACAGGACAGTGTAGAGGATATTTTAAAGAGGCTTCATGCCA 1041
Db 787 GAATGAAGACAGCCATCGAAACAGGACAGTGTAGAGGATATTTTAAAGAGGCTTCATGCCA 846
Qy 1042 ATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTTGGAATCCCTGATAAACTGA 1101
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Db 847 ATGGCTCCACTTCAGTTTCTGATAGAAACCAGAACCCCTTGGACTCCCCAGTAACATTGA 906
Qy 1102 TTAAGTTGTTTATGATTCCCATAGATAATGAATCAAAAGGAGGTAAAG--CAAAGGGGTGT 1160
Db 907 TTGAGTTGTTTATGATACCTTCATAGAAATATGAATCAAAAGGAGGTGAGTGTGTTGTGT 966
Qy 1161 GTCCGATTTCTT----- 1171
Db 967 GTGTGATTTCTTCCCAACTTCCAAAGTGGAGAAGCCTCTTCCAACTGCAGGCAGAGCACA 1026
Qy 1172 -----TGCTACTGGCTGACGTGCAGCCCCCAGCCTCTCTTCTCCAGCACAATAAACATTT 1223
Db 1027 GGTGGCCCTGCTACTGGCTGACGTCCAGCCCTGCGCTCTCTCTCTAGCATATAAACAAATC 1086
Qy 1224 CAGCAGCTGCACCTAA-GACTGCTGTGACGGGACAGGATGCTCCAGGCACAGACCCAGC 1282
Db 1087 CAACAGCCTCAGTGAATCACTGCTGTGACGGGACAGGAAGCTCCATGCATAGTACCCAGC 1146
Qy 1283 AAACAACAGCACACAGCTGAAAGTAAAGACTTCAGAGGAGACAGTTGAAGAGGCAAGTGGC 1342
Db 1147 AAAGAGCAACACAGAGCTGAAAGGAAGACTTCAGAGGAGAGAGATAAGTAAGGAAGTAGT 1206
Qy 1343 GATG 1346
Db 1207 GATG 1210

RESULT 8
US-09-144-367-3
; Sequence 3, Application US/09144367
; Patent No. 6432639
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/09/144,367
; CURRENT FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/058,612
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-09-144-367-3

Query Match 32.6%; Score 438.8; DB 3; Length 1345;
Best Local Similarity 76.5%; Pred. No. 1.1e-130;
Matches 646; Conservative 1; Mismatches 123; Indels 74; Gaps 6;

Qy 562 GGATGACACACAGGGGCCAGCAATCTCACCAAGTCACTCCACCAAGTCACTCCACCAACATTTCTGTGCA 621
Db 382 GGATGATACAGCAGGGGCCAGCAATCTCAGTAAGTCACTCCACCAAGCCTTTCTAGTG 441
Qy 622 CCACACCATGTGTACAGTACCTGTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGAC 681
Db 442 CCCACTGTGTACAGACAGCCCTGTTAGGACACAGAGCATGACAGGGAATAAGACTAGAC 501
Qy 682 TGTGCCCTTGAGGAACTCACCTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 741
Db 502 TATGCCCTTGAGGAGCTCACCTCTGTTTCCAGGAAACAGGGCGTGGAAA--CACAAATGGTGG 559
Qy 742 TAGAGAGAAATAGGAACTAGGAGTCTGCTAGGGGATAGGAGGACCCACAGAGGAGGAA 801
Db 560 TAAAGAGAAATAGGAACTAGGAGTCTGATTAAGGGGATGGAAGTGTCCCAAGGGGAGGAA 619
Qy 802 ATGGTTACATCTGTGTAGGAGTGTGTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 861
Qy 861 ATGGTTACATCTGTGTAGGAGTGTGTAGGAGTCTGCTAGGGTCCAGGGTCAATGAAAGTAAATACCAAGGAG 861
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; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-1

Query Match 32.5%; Score 437.6; DB 3; Length 1345;
Best Local Similarity 76.5%; Pred. No. 2.8e-130;
Matches 646; Conservative 0; Mismatches 124; Indels 74; Gaps 6;

QY 562 GGATGACACACAGGGGCCAGCAATCTCACCCAGTCAATCTCCACCAACATTTCTGGTCA 621
DB 382 GGATGCAATAGCAGAGGCCAGCAATCTCAGTAACTCCACCAAGCCTTTCTAGTTG 441

QY 622 CCACCAATGTGTACAGTACCTCTGCTAGGGTCCAGGGTCATGAAAGTAAATAATACCAAGAC 681
DB 442 CCACCTGTGTACAGCACCTGTGTAGGACCAAGCCATGACAGGAATAAGACTAGAC 501

QY 682 TGTGCCCTTGGAGAACTCACTCTGTCTAAGGGAACAGGCACAGAAACCCACAAAGGTGG 741
DB 502 TATGCCCTTGGAGAGCTCACTCTGTTTCCAGGAAACAGGGCGTGGAAA--CACAAATGGTGG 559

QY 742 TAGAGAGAAATAGGACAAATAGGACTGTGTAGGGGATAGGAGGCCACCCAGAGGAGAA 801
DB 560 TAAAGAGAAAGAGCAATAGGATTCATGAAGGGATGGAAGTCCCCAGGGGAGGAA 619

QY 802 ATGGTTACATCTGTGTAGGAGTGTGTAAAGAAAGACTTTAATAGAGGGGTCTGTCTG 861
DB 620 ATGGTTACATCTGTGTAGGAGTGTGTAGGAAAGACTCTAAGAGAA--GGCTGTGTCTG 678

QY 862 GCTGGGCTTCAAGGATGTGTAGGAGTCACTAGGGGGCAACAGTACACTCCAGGCAGAG 921
DB 679 TCTGGGTTTGAAGAGTGTGTAGGAGTCTTCTAGGGGGCAACAGGCACACTCCAG-- 732

QY 922 GGAATTCGATGGGTAAGATCTGCAGTGTGGCTTGTGGGATGGATTTCAAGTAATCTG 981
DB 733 -----GCATAGGTAAAGATCTGTAGGTGTGGCTTGTGGGATGAATTTCAAGTAATTTG 786

QY 982 GAATGAAGACAGCCATGGAACCAAGGCAGGTGTAGAGGATATTTAAGAGGCTTTCATGCCA 1041
DB 787 GAATGAAGACAGCCATGAGACCAAGGCAGGCAAGAGAGCGGATTTAATAGATTTTATGCCA 846

QY 1042 ATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGACTCCCTGTGATAAACTGA 1101
DB 847 ATGGCTCCACTTCAGTTTCTGATAAGAACTCAGAAACCCAGAAACCCCTTGGACTCCCCAGTAACATGA 906

QY 1102 TTAAGTTGTTTATGATTTCCCATAGATATGAATCAACTCAAGAGGAGTAAG--CAAGAGGTTG 1160
DB 907 TTGAGTTGTTTATGATACCTCATGAATATGAATCTCAAGAGGAGTCAAGTGTGTTGTTG 966

QY 1161 GTGGGATTTCTT----- 1171
DB 967 GTGTGATTTCTTTGGCCAACTTCAAGGTGGAGAGGCTCTTCAACTGAGGCAGACACA 1026

QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCACCTCTCTTCAGCACATAAACAATTT 1223
DB 1027 GGTGGCCCTGTACTGGCTGCAGCTCCAGCCCTGCCTCTCTCTAGCATATATAACAATC 1086

QY 1224 CAGCAGCTTGACCTTAA--GACTGTCTGTGAGGGCAGGGATGTCTCAGGCAGACAGCCACG 1282
DB 1087 CAACAGCCTCACTGAATCACTGTCTGTGAGGGCAGGAAAGCTCCATGACATAGCCACG 1146

QY 1283 AAACAACAGCACACAGCTGAAGTAAAGTCAAGAGGACACAGTGTGAAGAGGCAAGTGGC 1342
DB 1147 AAAGAGCAACACAGAGCTGAAGGAGAGTCTCAGAGGAGAGATGAATGAAGAAAGTATG 1206

QY 1343 GATG 1346
|||||

Db 1207 GATG 1210

RESULT 11

US-09-949-016-14432
; Sequence 14432, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14432
; LENGTH: 34172
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-14432

Query Match 32.0%; Score 430.2; DB 3; Length 34172;
Best Local Similarity 76.2%; Pred. No. 4.6e-127;
Matches 656; Conservative 0; Mismatches 123; Indels 82; Gaps 7;

QY 544 TCACCAACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTTCAACCAAGTCAACTC 603
DB 1272 TCACCAAGAACTCAGAGAACTGACACACAGGGGCCAGCAATCTTCAACCAAGTCAACTC 1331

QY 604 CACCAACATTTCTGGTCAACCCACCATGTGTACAGTACCTCTGTAGGTTCCAGGTCATGA 663
DB 1332 CACCAGCCTTTCTGGTC--CCCACTGTGTGTACAGCACCTCTGTAGGGACCCAGATGA 1390

QY 664 AAGTAATATATACAGACTCTGCCCTTGAGGAACTCACCTCTGTAGGGAACACAGGCAC 723
DB 1391 GAGTGAATAAGACAGACTATGCCCTTGAGAGCTCACCTCTGTCTGTAGGGAACACAGGCCT 1450

QY 724 AGAAACCCACAAAGGCTGTAGAGAGAAATAGGACAAATAGGACTGTGTAGGGGGATAGG 783
DB 1451 GGAACACACAAATGGTGTAAAGAGAAAGAGACAAATAGAACTGCATGAAGGGGATGA 1510

QY 784 AGGCACCCAGAGGAGAAATGGTTACATCTGTGTGAGGAGTTGGTAAGGAAACACTTTA 843
DB 1511 AAGTGCCAGGGGAGGAAATGGTTACTTCTGTGTGAGGGGGTGGTGAGGAAAGACTCTA 1570

QY 844 ATAGAGGGGTCTGTCTGGCTGGCTTGCAAGGATGTAGGAGTCACTTAGGGGGGCACA 903
DB 1571 AGAGAA--GGCTCTGTCTGGCTGGGTATGAAGAGGATGTAGGAGTCTTCTAGGGGGGCACA 1629

QY 904 AGTACACTCCAGGCAGAGGGAATTCATGGGTAAAGATCTGCAGTTGTGGCTTGTGGGA 963
DB 1630 GGCACTCCAG-----GCATAGTAAAGATCTGTAGGCATGGCTTGTGGGA 1677

QY 964 TGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGGAAACAAAGGCGAGGTGAGAGGATAT 1023
DB 1678 TGAGTTTCAAGTATTTCTGGAATGAGGACAGCCATAGAGACA-----AGAGGAGAG 1727

QY 1024 TTAAGAGCTTCAAGCCAAATGGCTCCACTTCAGTTTCTGTATAAGAACTCAGGTTCCCGTGG 1083
DB 1728 TTAATAGATTTTATGCAAAATGGCTCCACTTGAGTTTGTGATGAACCCAGAACCCCTTGG 1787

QY 1084 ACTCCCTGATAAAACTGATTAAGTTTGTATTGATTTCCCATAGATAATGAACCTCAAGGA 1143
DB 1788 ACTCCCAAGTAACATTTGATGAGTTGTGATGATTTCTACATAGATAATTAACCTCAATGA 1847

QY 1144 GGTAAAG--CAAAGGGGTGTGCGGATTTCTT----- 1171

Db 1848 GGTGAGTGGTGTGTGTGATTTTCCCACTGCCAGGTGGAGAGCCTCTTCC 1907
Qy 1172 -----TGCTACTGGCTGCAGCTGCAGCCCACTCTTCT 1206
Db 1908 GACTGCAGGCAGACGCGGGCCCTGCTACTGGCTGCAGCTCCAGCCCTCTTCT 1967
Qy 1207 CCAGCACATAAACTTTCAGCAGCTTGACCTAA- GACTGTGTGCGAGGCGAGGATGCTC 1265
Db 1968 CCAGCATATAAACAATCCAAACAGCCTCACTGAATCACTGTGTGCGAGGCGAGGAAGCTC 2027
Qy 1266 CAGCGACAGCCCGAGCAACAACAGCACAGCTGAACTGAAGTAACTCAGAGGAGACAGT 1325
Db 2028 CACACACAGCCCGAGCAACAACAGCACAGCCTGCTGAAAAAAGACTCAGAGGAGAGAGA 2087
Qy 1326 TGAAGAAGGCAAGTGGCGATG 1346
Db 2088 TAAGGAAGGAAGTAGTGATG 2108
RESULT 12
US-09-949-016-20240/c
; Sequence 20240, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20240
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-20240
Query Match 21.6%; Score 290.6; DB 3; Length 601;
Best Local Similarity 86.9%; Pred. No. 4.4e-83;
Matches 331; Conservative 1; Mismatches 45; Indels 4; Gaps 1;
Qy 966 GATTTCAAGTATTCTGGAATGAAGACAGCCATGGAACAGGCGAGGTGAGAGATATT 1025
Db 601 GATTTCAATATTCTAGAATGAAGGAGCCATGG----AGGGCGAGGTGAGAGGAGGTT 546
Qy 1026 AAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 1085
Db 545 AATAGATTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 486
Qy 1086 TCCTGTATAAACTGATTAAGTTGTTTATGATTCCTCATAGAACTGAAGTCAAGGAGG 1145
Db 485 TCCCCGATAACACTGATTAAAGCTTTTCATGATTTCTCATAGAACTGAAGTCAAGGAGG 426
Qy 1146 TAAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTGCGAGCCCACTCTCTTC 1205
Db 425 TCAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTATAGCCTTCCTCTTC 366
Qy 1206 TCAGCACATAAACTTTTCAGCAGCTTGACCTTAAGACTCTGTGCAAGGCGAGGATGCTC 1265
Db 365 TCAGCACATAAATCTTTTCAGCAGCTTGCTGAGACTGCTGTGCAAGGCGAGGAGCTC 306
Qy 1266 CAGGCGACAGCCCGAGCAACAACAGCACACAGCTGAAGTGAAGTCAAGGAGAGCAGT 1325
Db 305 CAGGAAAAACAGCCCGAGCAACAACAGCACACTCAGCTAAAAAGGAAGACTCAGAGAACAGT 246
Qy 1326 TGAAGAAGGCAAGTGGCGATG 1346
Db 245 TGAAGAAGGAAGTGGCGATG 225
RESULT 14
US-09-573-080A-348
; Sequence 348, Application US/09573080A
; Patent No. 6828097
; GENERAL INFORMATION:
; APPLICANT: JOAN, KNOLL
; APPLICANT: ROGAN, PETER
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING
; FILE REFERENCE: 30307
; CURRENT APPLICATION NUMBER: US/09/573,080A

Qy 1326 TGAAGAAGGCAAGTGGCGATG 1346
Db 245 TGAAGAAGGAAGTGGCGATG 225
RESULT 13
US-09-949-016-42446/c
; Sequence 42446, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42446
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-42446
Query Match 21.6%; Score 290.6; DB 3; Length 601;
Best Local Similarity 86.9%; Pred. No. 4.4e-83;
Matches 331; Conservative 1; Mismatches 45; Indels 4; Gaps 1;
Qy 966 GATTTCAAGTATTCTGGAATGAAGACAGCCATGGAACAGGCGAGGTGAGAGATATT 1025
Db 601 GATTTCAATATTCTAGAATGAAGGAGCCATGG----AGGGCGAGGTGAGAGGAGGTT 546
Qy 1026 AAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 1085
Db 545 AATAGATTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 486
Qy 1086 TCCTGTATAAACTGATTAAGTTGTTTATGATTCCTCATAGAACTGAAGTCAAGGAGG 1145
Db 485 TCCCCGATAACACTGATTAAAGCTTTTCATGATTTCTCATAGAACTGAAGTCAAGGAGG 426
Qy 1146 TAAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTGCGAGCCCACTCTCTTC 1205
Db 425 TCAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTATAGCCTTCCTCTTC 366
Qy 1206 TCAGCACATAAACTTTTCAGCAGCTTGACCTTAAGACTCTGTGCAAGGCGAGGATGCTC 1265
Db 365 TCAGCACATAAATCTTTTCAGCAGCTTGCTGAGACTGCTGTGCAAGGCGAGGAGCTC 306
Qy 1266 CAGGCGACAGCCCGAGCAACAACAGCACACAGCTGAAGTGAAGTCAAGGAGAGCAGT 1325
Db 305 CAGGAAAAACAGCCCGAGCAACAACAGCACACTCAGCTAAAAAGGAAGACTCAGAGAACAGT 246
Qy 1326 TGAAGAAGGCAAGTGGCGATG 1346
Db 245 TGAAGAAGGAAGTGGCGATG 225
RESULT 14
US-09-573-080A-348
; Sequence 348, Application US/09573080A
; Patent No. 6828097
; GENERAL INFORMATION:
; APPLICANT: JOAN, KNOLL
; APPLICANT: ROGAN, PETER
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING
; FILE REFERENCE: 30307
; CURRENT APPLICATION NUMBER: US/09/573,080A

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; CURRENT FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 348
; LENGTH: 7678
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: repeat_region
; LOCATION: (1)..(7678)
; OTHER INFORMATION: l1p_ma2
; NAME/KEY: misc feature
; OTHER INFORMATION: n is a, c, g or t
; PUBLICATION INFORMATION:
; PUBLICATION INFORMATION:
; AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
; TITLE: Prototypic sequences for human repetitive DNA
; JOURNAL: Journal of Molecular Evolution
; VOLUME: 35
; ISSUE: 4
; PAGES: 286-291
; DATE: 1992-10-
; DATABASE ACCESSION NUMBER: Database of repetitive elements (repbase)
; DATABASE ENTRY DATE: 1996-01-26
; DATABASE ENTRY DATE: 1996-01-26
US-09-573-080A-73

Query Match 12.6%; Score 169.2; DB 3; Length 7678;
Best Local Similarity 85.7%; Pred. No. 2.9e-43;
Matches 197; Conservative 2; Mismatches 30; Indels 1; Gaps 1;

Qy 1 GGAAGCAACCTACATGTCCTCAACAGATGAATGGGTAAGAGAGAGTACTTCACTTATGCA 60
Db 7114 GGAAGCAACCTAAAGTGTCCATCAACAGATGAATGGGTAAGAGAGAGTACTTCACTTATGCA 7173

Qy 61 CAATGGAGTACTATTACGCCAT-AAAAAAGAGATGAGATCCTGCTTTTATAATAACGTCG 120
Db 7174 CAATGGAGTACTATTACGCCAT-AAAAAAGAGATGAGATCCTGCTTTTATAATAACGTCG 7232

Qy 121 CTGGAAGTGCAGGTCATTATGTTAGGTAATAAGCCAGGCACACAAAGACAGACATGCG 180
Db 7233 ATGGAAGTGCAGGTCATTATGTTAGGTAATAAGCCAGGCACACAAAGACAGACATGCG 7292

Qy 181 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAATG 230
Db 7293 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAATG 7342
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RESULT 15
US-09-573-080A-73
; Sequence 73, Application US/09573080A
; Patent No. 682897
; GENERAL INFORMATION:
; APPLICANT: JOAN, KNOELL
; APPLICANT: ROGAN, PETER
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATI
; FILE REFERENCE: 30307
; CURRENT APPLICATION NUMBER: US/09/573,080A
; CURRENT FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 1055
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: repeat_region
; LOCATION: (1)..(1055)
; OTHER INFORMATION: l1ma2
; NAME/KEY: misc feature
; OTHER INFORMATION: n is a, c, g or t
; PUBLICATION INFORMATION:
; PUBLICATION INFORMATION:
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Search completed: January 10, 2006, 20:18:20
Job time : 289 secs

Result No.	Score	Query Match	Length	DB	ID	Description
1	1179.2	87.6	1254	5	US-10-085-612-4	Sequence 4, Appli
2	1141.6	84.8	2214	4	US-09-925-065A-675137	Sequence 675137,
3	1072.1	79.7	177531	8	US-10-484-577-660	Sequence 660, App
4	1021.2	75.9	96960	8	US-10-484-577-662	Sequence 662, App
5	730.2	54.2	8776	7	US-10-257-166-149	Sequence 149, App
6	616.8	45.8	8776	7	US-10-257-166-150	Sequence 150, App
7	455.6	33.8	13035	5	US-10-121-960C-14	Sequence 14, Appli
8	438.8	32.6	1345	5	US-10-146-575-3	Sequence 3, Appli
9	438.8	32.6	1345	5	US-10-085-612-3	Sequence 3, Appli
10	438.4	32.6	1345	3	US-09-943-115A-1	Sequence 1, Appli
11	433	32.2	15185	6	US-10-121-960C-17	Sequence 17, Appli
12	420.6	31.2	12983	9	US-10-415-607-1	Sequence 1, Appli
13	394.8	29.3	11186	3	US-09-957-997-1	Sequence 1, Appli
14	394.8	29.3	11186	9	US-10-415-607-4	Sequence 4, Appli
15	387.2	28.8	1012	3	US-09-957-997-4	Sequence 4, Appli
16	263.6	19.6	611	4	US-09-925-065A-839692	Sequence 839692,
17	240.4	17.9	8943	7	US-10-257-166-47	Sequence 47, Appli
18	190.2	14.1	8943	7	US-10-257-166-48	Sequence 48, Appli
19	184.4	13.7	547	4	US-09-925-065A-409844	Sequence 409844,
20	169.2	12.6	7678	9	US-09-854-867-348	Sequence 348, App
21	169.2	12.6	7678	9	US-10-786-970A-348	Sequence 348, App
22	167.2	12.4	1055	3	US-09-854-867-73	Sequence 73, Appli
23	167.2	12.4	1055	9	US-10-786-970A-73	Sequence 73, Appli

Db 183 TTCTTCTGATACATAGTATCTTCTTGACACATTCAGTACAACCTCTCAACAGGTAAGTCT 242
Qy
Db 403 CTTTCATGTATGTTACCTTCTGAGGAATTAAGTGCAGAAATGCTCTTCTATTTTTCCT 462
Db 243 CTTTCATGTATGTTACCTTCTGAGGAATTAAGTGCAGAAATGCTCTTCTATTTTTCCT 302
Qy 463 TTGCAGAAACAGACCAATTCATTTAGTTGGGAAACAGTGTGGTGCATCTGAGCCCCAA 522
Db 303 TTGCAGAAACAGACCAATTCATTTAGTTGGGAAACAGTGTGGTGCATCTGAGCCCCAA 362
Qy 523 GCAACCAATTAAGTCTTATTTGCTATACCAAGTCTCAGAGGGATGACACAGAGGGCCAG 582
Db 363 GCAACCAATTAAGTCTTATTTGCTATACCAAGTCTCAGAGGGATGACACAGAGGGCCAG 422
Qy 583 CAATCTCACCAAGTCAACTCCACCAATTTCTGTGCACCCACCAATGCTGACAGTACCC 642
Db 423 CAATCTCACCAAGTCAACTCCACCAATTTCTGTGCACCCACCAATGCTGACAGTACCC 482
Qy 643 TGCTAGGGTCCAGGGTCAATGAAAGTAAATAATACAGACTGTGCCCTTGAGGAACTCAC 702
Db 483 TGCTAGGGTCCAGGGTCAATGAAAGTAAATAATACAGACTGTGCCCTTGAGGAACTCAC 542
Qy 703 TCTGCTAAGGAAACAGGCAAGGCAAGGCAAGGCTGAGAGGAAATAGGACAAAT 762
Db 543 TCTGCTAAGGAAACAGGCAAGGCAAGGCTGAGAGGAAATAGGACAAAT 602
Qy 763 GGAAGTGTGAGGGGATAGGAGGCAAGGCTGAGAGGAAATAGGACAAAT 822
Db 603 GGAAGTGTGAGGGGATAGGAGGCAAGGCTGAGAGGAAATAGGACAAAT 662
Qy 823 GGTGGTGAAGGAAACCTTTAATAGAGGGTCTGTCTGGTGGGCTTGCAAGGATGT 882
Db 663 GGTGGTGAAGGAAACCTTTAATAGAGGGTCTGTCTGGTGGGCTTGCAAGGATGT 722
Qy 883 AGGAGTCACTAGGGGCAAGGATGACACTCAGGCAAGGAAATGCAAGGAAATGCAAGG 942
Db 723 AGGAGTCACTAGGGGCAAGGATGACACTCAGGCAAGGAAATGCAAGGAAATGCAAGG 782
Qy 943 TGCAAGTGTGGCTTGTGGGATGATTTCAAGTATCTGGAATGCAAGGAAATGCAAGG 1002
Db 783 TGCAAGTGTGGCTTGTGGGATGATTTCAAGTATCTGGAATGCAAGGAAATGCAAGG 842
Qy 1003 CAAGGCAAGGATGAGAGATTTAAGAGGCTTCATGCAATGGCTCCACTTCAGTTTCTG 1062
Db 843 CAAGGCAAGGATGAGAGATTTAAGAGGCTTCATGCAATGGCTCCACTTCAGTTTCTG 902
Qy 1063 ATAAGACTCAGGTTCCGTTGACTCCCTGATAAACTGATTAAGTTGTTTANGATTCCTCC 1122
Db 903 ATAAGACTCAGGTTCCGTTGACTCCCTGATAAACTGATTAAGTTGTTTANGATTCCTCC 962
Qy 1123 ATAGAAATGAACTCAAGAGGTAAGCAAGGGGTGTGCGATTTCTTGTACTGGCT 1182
Db 963 ATAGAAATGAACTCAAGAGGTAAGCAAGGGGTGTGCGATTTCTTGTACTGGCT 1022
Qy 1183 GCAGCTGCAGCCCACTCTCTTCCAGCATAAAATTTTCCAGCAGTTGACCTAAGAC 1242
Db 1023 GCAGCTGCAGCCCACTCTCTTCCAGCATAAAATTTTCCAGCAGTTGACCTAAGAC 1082
Qy 1243 TGCTGTGAGGGCAGGGATGCTCCAGGAGACAGCCCAAGCAAAACAGCAGCAGCTGA 1302
Db 1083 TGCTGTGAGGGCAGGGATGCTCCAGGAGACAGCCCAAGCAAAACAGCAGCAGCTGA 1142
Qy 1303 AAGTAAGACTCAGAGGAGACAGTTGAAGAGGCAAGTGGCGATG 1346
Db 1143 AAGTAAGACTCAGAGGAGACAGTTGAAGAGGCAAGTGGCGATG 1186

RESULT 2

US-09-925-065A-675137
; Sequence 675137, Application US/09925065A
; Publication No. US2005028172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: Nucleotide Polymorphisms in the Human Genome
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 675137
; LENGTH: 2214
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-675137

Query Match 84.8%; Score 1141.6; DB 4; Length 2214;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1144; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 199 GGGATCTACAAATCAAAACAAATTCAGCTAATGCTGGTCTTAGTCAATTTGTACCCCTA 258
Db 1 GGGATCTACAAATCAAAACAAATTCAGCTAATGCTGGTCTTAGTCAATTTGTACCCCTA 60
Qy 259 AGTACAGGGAGCAGCCATTAGAAATACATGATGAATGCTTTTAATACAGGAATGAATAGG 318
Db 61 AGTACAGGGAGCAGCCATTAGAAATACATGATGAATGCTTTTAATACAGGAATGAATAGG 120
Qy 319 TGAGAGGCACAGGGTGGTGGTGGTCTTCTCGATAATAGTATCTTCTTGCACATTCAC 378
Db 121 TGAGAGGCACAGGGTGGTGGTGGTCTTCTCGATAATAGTATCTTCTTGCACATTCAC 180
Qy 379 GTACAACTCTCAACAGGTAACTCTTCTCATGATGTTACCTCTGAGGAATTAAGTGCCA 438
Db 181 GTACAACTCTCAACAGGTAACTCTTCTCATGATGTTACCTCTGAGGAATTAAGTGCCA 240
Qy 439 GAACATGCCCTCTTATTTATTTTCTTTCAGAAACAGACCAATTCGATTTAGTGGGAAACA 498
Db 241 GAACATGCCCTCTTATTTATTTTCTTTCAGAAACAGACCAATTCGATTTAGTGGGAAACA 300
Qy 499 GTGCTGGCTGCATCTGAGCCCCCAAGCAACCATTTAGTCTATTTGCTATCACCAGACTCAG 558
Db 301 GTGCTGGCTGCATCTGAGCCCCCAAGCAACCATTTAGTCTATTTGCTATCACCAGACTCAG 360
Qy 559 AGGGGATGACACAGAGGGGCCAGCAATCTCACCCAGTCACTCCACCAACATTTCTTGG 618
Db 361 AGGGGATGACACAGAGGGGCCAGCAATCTCACCCAGTCACTCCACCAACATTTCTTGG 420
Qy 619 TCACCCACCATGTTGACAGTACCTGCTAGGGTCCAGGGTCAAGAAAGTAAATTAATACCA 678
Db 421 TCACCCACCATGTTGACAGTACCTGCTAGGGTCCAGGGTCAAGAAAGTAAATTAATACCA 480
Qy 679 GACTGTGCCCTTGGAGGAATCTCCTCTGCTAAGGGAAACAGGCAAGAAACCCACAGGG 738
Db 481 GACTGTGCCCTTGGAGGAATCTCCTCTGCTAAGGGAAACAGGCAAGAAACCCACAGGG 540
Qy 739 TGGTAGAGAGAAATAGGCAATAGGACTGCTGTGAGGGGATAGGAGGCCACCCAGAGGAG 798
Db 541 TGGTAGAGAGAAATAGGCAATAGGACTGCTGTGAGGGGATAGGAGGCCACCCAGAGGAG 600
Qy 799 GAAATGGTTACATCTGTGTGAGGAGGTTGGTAAAGAAAGACTTTTAATAGAGGGGCTCTGT 858
Db 601 GAAATGGTTACATCTGTGTGAGGAGGTTGGTAAAGAAAGACTTTTAACAGAGGGGCTCTGT 660
Qy 859 CTGGCTGGCTTGCAGAGGATGTGTAGAGTCACTCTAGGGGGCAAGTACACTCCAGGCA 918

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Db 661 CTGGCTGGCGTGAAGGATGTGTAGAGTCATCTAGGGGGACAAGTACACTCCAGGCA 720
Qy 919 GAGGGAATTCATGGGTAAAGATCTCGAGTGTGGCTTGTGGGATGGATTTCAAGTATT 978
Db 721 GAGGGAATTCATGGGTAAAGATCTCGAGTGTGGCTTGTGGGATGGATTTCAAGTATT 780
Qy 979 CTGGAATGAGACAGCAGCCATGGAACAAGGCGCAGGTGAGAGGATATTTAAGAGGCTTCATG 1038
Db 781 CTGGAATGAGACAGCAGCCATGGAACAAGGCGCAGGTGAGAGGATATTTAAGAGGCTTCATG 840
Qy 1039 CCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGGACTCCCTGATATAAAC 1098
Db 841 CCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGGACTCCCTGATATAAAC 900
Qy 1099 TGATTAAAGTTGTTTATGATTTCCCATAGATAATGAATCAAAAGGAGGTAAAGCAAGGGGT 1158
Db 901 TGATTAAAGTTGTTTATGATTTCCCATAGATAATGAATCAAAAGGAGGTAAAGCAAGGGGT 960
Qy 1159 GTGTGGGATTTCTTGCTACTGGCTGCAGCTGCAGCCCCCACCCTCCTTCTCCAGCACATAAA 1218
Db 961 GTGTGGGATTTCTTGCTACTGGCTGCAGCTGCAGCCCCCACCCTCCTTCTCCAGCACATAAA 1020
Qy 1219 CATTTCAGCAGCTTGAACCTAAGACTGCTGTGCAGGCGAGGATGCTCCAGGCGACAGCC 1278
Db 1021 CATTTCAGCAGCTTGAACCTAAGACTGCTGTGCAGGCGAGGATGCTCCAGGCGACAGCC 1080
Qy 1279 CAGCAAAACACAGCACACAGCTGAAAGTAAAGACTCAGAGGAGACAGTTGAAGAAGGCAAG 1338
Db 1081 CAGCAAAACACAGCACACAGCTGAAAGTAAAGACTCAGAGGAGACAGTTGAAGAAGGCAAG 1140
Qy 1339 TGGCGATG 1346
Db 1141 TGGCGATG 1148

RESULT 3
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGTL1
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 660
; LENGTH: 177531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-660

Query Match 79.7%; Score 1072.6; DB 8; Length 177531;
Best Local Similarity 89.8%; Pred. No. 0;
Matches 1210; Conservative 0; Mismatches 124; Indels 13; Gaps 5;

Qy 1 GGAAGCAACCTACATGTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 60
Db 14581 GGAAGCAACCTAAGTGTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 14640
Qy 61 CAATGAGTACAATTGAGCCATGAAAAAGCATGAGATCTGTCTTTTATAATTAACGTGG 120
Db 14641 CAATGAGTACAATTGAGCCATGAAAAAGCATGAGATCTGTCTTTTATAATTAACGTGG 14700
Qy 121 CTGGAATGCGAGTCAATTATGTTAGGTAAATTAAGCCAGGCACACAAAGACAGACATTCG 180
Db 121 CTGGAATGCGAGTCAATTATGTTAGGTAAATTAAGCCAGGCACACAAAGACAGACATTCG 15828
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Db 14701 ATGGAACTGGAGGTCATCATGTTAAGTGAATAAGCCAGGCACAGAAACACAGATATTGC 14760
Qy 181 ATGTTCTCACTTATTTGTGGGATCTACAATAACAAATGAGCTAAATGTCTGGGTCTTT 240
Db 14761 AAGTTCTCACATACCTTGTGGGATCTACAATAACAAATGAGCTAAATGTCTGGGCTTT 14820
Qy 241 AGTCAATTTTGTACCTTAAGTACAGGGACACAGCCATTTAGAAATACATGATGATGCTTTT 300
Db 14821 AGTCAAGTGTGTACCC--AAGTACTGGGAGCACAGCTTTTAAAAATACATCATGAATGCTTT 14879
Qy 301 AATACAGGAATGAATAGGTGAGAGGCACAGGGTGGTGGGTGTTCTTCTGATACATAGTA 360
Db 14880 AATACAGGAATGAATAGGTGAGAGGCACAAACTGTTGGGTGTTCTTCTGATACACAGTA 14939
Qy 361 TCTTCTCTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCTCATG--TATGTTACCT 419
Db 14940 TCTTCTCTTGACAGATTCAGTACAACTCTCAACAGGTAAGTCTCTTCTCATGTTATGTTACCT 14999
Qy 420 TCTGAGGAATTAAGTGGGAGAAACATGCTTCTATTTATTTTCTTTCGAGAACAGAACCAA 479
Db 15000 TATGAGGAATTAAGTGGGAGAAACATGATTTCTATTTATTTTCTTTCGAGAACAGAACCAA 15059
Qy 480 TTGCAATTAGTTGGGAAAACAGTCTGCTGCATCTGAGCCCCCAAGCAACCATTAAGTCTATT 539
Db 15060 CTTTATAGTTGGGACACAGTG--TGCTGCATTTGATGCCAAGCAACCATTAAGTCTATT 15118
Qy 540 GCTATCACACAGACTCAGAGGGGATGACACACAGGGGCCCAAGCAATCTCACCAAGTCA 599
Db 15119 GCTATCACACAGACTCAGAGGGGATGAGC-----GCCAGCAATCTCACCAAGACA 15172
Qy 600 ACTCCACCACCAATTTCTGCTCACCACCATGTGTACAGTACCTTGTAGGGTCCAGGGTC 659
Db 15173 ACTCCACCACCAATTTCTGTTTACCCACCATGTGTACAGTACCTTGTAGGAACCAAGGTC 15232
Qy 660 ATGAAAGTAAATAATACACAGACTGTGCCCTTCAGGAACTCACCTCTGCTAAAGGAAACAG 719
Db 15233 ATGAAAGTAAATAATACACAGACTGTGCCCTTCAGGAGCTCACCTCTGCTAAAGGAAACAG 15292
Qy 720 GCACAGAAACCCCAAGGGTGTAGAGAGAAATAGGACAATAGGACTGTGTAGAGGGGA 779
Db 15293 GCATAGAACTTTACAATGTTGTAGAGAAAGAGGACAATAGGACTGTGTAGAGGGGA 15352
Qy 780 TAGGAGGCCACCCAGAGGAGGAAATGGTTACATCTGTGTAGGAGGTTGGTAAGGAAAGAC 839
Db 15353 TAGGAGGCCACCCAGAGGAGGAAATGGTTACATTTGTGTAGGAGGTTGGTAAGGAAAGAT 15412
Qy 840 TTTAATAGAAAGGGTCTGTCTGCTGGGCTTCGACAGGATGTGTAGGAGTCATCTAGGGG 899
Db 15413 TTTAGCAAGAGGGGCTGTCTGCTGGGCTTGAAGGATACGTAGGAGTCATCTAGAGG 15472
Qy 900 CACAAAGTACATCCAGGCAGAGGGAATTGCATGGGTAAAGATCTGCAGTTGTGGCTTTGTG 959
Db 15473 CACAGGTACATCCAGGCAGAGGGAATTTGTTGGGTAAAGATGTGTAGGTGTGGCTTTGTG 15532
Qy 960 GGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATCGAAACAAGGCGCAGGTGAGAG 1019
Db 15533 AGGATGGATTTCAATTTATTTCTAGAAATGAAGGAGCCATGG----AGGGCGCAGGTGAGAG 15588
Qy 1020 ATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATTAAGAACTCAGGTTC 1079
Db 15589 AGGTTTAATAGATTTTCATGCCAATGGCTCCACTTCAGTTTCTGATTAAGAAACCCAGAACCC 15648
Qy 1080 GTGGACTCCCTGATAAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAACCTAA 1139
Db 15649 TTGGACTCCCTGATTAACACTGATTAAGCTTTTCACTGATTTCTCATAGAACATGAACCTAA 15708
Qy 1140 AGGAGTAAAGCAAAAGGGTGTGTGCATTTCTTGTACTGGCTGCAGCTGCAGCCCCACC 1199
Db 15709 AAGAGTCAAGCAAAAGGGTGTGTGCATTTCTTTGCTATTTGGCTGCAGCTATAGCCCCGCC 15768
Qy 1200 TCTCTTCCAGCACATAAATTTACAGAGCTTGACCTAAGACTGCTGTGAGGCGAGGG 1259
Db 15769 TCTCTTCCAGCACATAAATCTTTACAGAGCTTGGCTGAAGACTGCTGTGAGGCGAGGG 15828
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QY 1260 ATGCTCCAGGACAGCCAGCAACAAACAGACACAGCTGAAAGTAAGACTCAGAGGA 1319
Db 15829 AAGCTCCAGGCAACAGCCAGCAACAGAGCACTCAGCTAAAGGAGACTCACAGAA 15888
QY 1320 GACAGTTGAAGAGGCAAGTGGCGATG 1346
Db 15889 CACAGTTGAAGAGGAAAGTGGCGATG 15915

RESULT 4
US-10-484-577-662
; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 662
; LENGTH: 96960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-662

Query Match 75.9%; Score 1021.2; DB 8; Length 96960;
Best Local Similarity 85.2%; Pred. No. 0;
Matches 1252; Conservative 0; Mismatches 93; Indels 125; Gaps 5;

QY 1 GGAGCAACCTACATGTCCTCAACAGATGAATGGTAAAGAGAGTACTTCACATTATGCA 60
Db 92152 GGAAGCAACCTAAGTGTCCATCAACAGATGAATGGTAAAGAAAGTGTCCACTTATACA 92211

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCTTTATAATAACCTGG 120
Db 92212 CAATGGAGTACAAATTCAGATAGCAAGAAAGCATGAGATCTGTATCTGTAATAACATGG 92271

QY 121 CTGGAATGCGAGTCAATTAAGTAAATAAGCCAGGCACACAAAGACAGACATTCG 180
Db 92272 ATGGAATGCGAGTCAATTAAGTAAATAAGCCAGGCACACAAAGACAGACATTCG 92331

QY 181 ATGTTCTCACTTATTTGGGATCTACAAATCAAAACAAATTTAGATTAATGCTGGTCTT 240
Db 92332 ATGTTCTCACTTATTTGGGATCTACAAATCAAAACAAATTTAGATTAATGCTGGTCTT 92391

QY 241 AGTCAATTTTGTACCTTAAGTACAGGAGCAGCCATTTAGAATACATGATGAATGCTTT 300
Db 92392 AGTCAATTTTGTACCTTAAGTACAGGAGCAGCCATTTAGAATACATGATGAATGCTTT 92451

QY 301 AATACAGAAATGAATAGTGTAGAGGCACAGGGTG - GTTGGGTGTTCTTCGTATACATAG 358
Db 92452 AATACAGAAATGAATAGTGTAGAGGCACAGGGTGCTCTGGGTGTTCTTCGTATACATAG 92511

QY 359 TATCTCTTGCACATTTCACTACAACTCAACAGGTAAAGTCTCTTCATG - TATGTTAC 417
Db 92512 TATCTCTTGCACATTTCACTACAACTCAACAGGTAAAGTCTCTTCATGTTATGTTAC 92571

QY 418 CTTCTGAGGAATTAAGTGGCAGAACATGCCCTTCTATTATTTTCTTTTGCAGAACAGACC 477
Db 92572 CTTCTGAGGAATTAAGTGGCAGAACATGCCCTTCTATTATTTTCTTTTGCAGAACAGACC 92631

QY 478 AATTGCATTAAGTGGGAAACAGTGTGCTGCATCTGAGCCCAAGCAACCATTAAGTCTA 537
Db 92632 AGTTGCATTAAGTGGGAAACAGTGTGCTGCATCTGAGTCCCAAGCAACCATTAAGTCTA 92691

QY 538 TTG-----CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAG 582
Db 92692 TTGCTGAGAGTAATTAAGTCTATTTCTACAGACTTAGAGGGGATGACACACAGGGGCCAG 92751

QY 583 CAATCTCACCCAAAGTCAACTCCACCAACATTTCTGTGTACCCACCATGTGTATCAGTACCC 642
Db 92752 CAATCTCACCCAAAGTCAACTCTGCCAACCTTTCTGGTCAACCCACCATGTGTATCAGTACCT 92811

QY 643 TGCTAGGGTCCAGGTCATGAAAGTAATAATACACAGACTGTGCTCCCTTGAGGAACCTCAC 702
Db 92812 TGCTAGGGTCCAGGTCATGAAAGTAAGTAATACACAGACTGTGCTCCCTTGAGGAACCTCAC 92871

QY 703 TCTGCTAAAGGAAACAGGCACAGAAACCCCAAGGGTGGTAGAGAGGAAATAGGACAATA 762
Db 92872 TCTGCTAAAGGAAACAGGCACAGAAACCCCAATGTGTGTAGAGAGGAAAGAGACANAT 92931

QY 763 GGAAGTGTGAGGGGATAGGAGCCACCCAGAGAGGAAATGTTATCATCTGTGTAGGA 822
Db 92932 GGAAGTGTGAGGGGATAGGAGCCACCCAGAGAGGAAATGTTATCATCTGTGTAGGA 92990

QY 823 GGTGTGTAAGGAAAGACTTTTAAGAGGGGTCTGTCTGCTGGCTTGGCAAGGATGTGT 882
Db 92991 GGTGTGTAAGGTAAGACTTTTAAACAGAGGGGTCTGTCTGTCTGGCTTGGAAAGGATGTGT 93050

QY 883 AGGAGTCACTAGGGGGCACAAGTACACTCCAGGCAGAGGAAATTTGCATGGGTAAAGATC 942
Db 93051 AGGAGTCACTAGGGGGCACAAGTACACTCCAGGCAGAGGAAATTTGCATGGGTAAAGATC 93110

QY 943 TGCAGTTGTGGCTTGTGGGATGGAATTTCAAGTATTTCTGGAATGAAGACAGCCATGAAA 1002
Db 93111 TGTAGGTATGGCTTGTGGGATGGAATTTCAAGTATTTCTGGAATGAAGACAGCCATGAAA 93170

QY 1003 CAAGGCGAGTGAAGGATATTTAAGAGGCTTCATG----- 1038
Db 93171 CAAGGCGAGTGAAGGATATTTAAGAGGCTTCATG----- 1038

QY 1039 ----- 1038

Db 93231 GTAAACAACTGCACATTTTGCACATGTACCTTAAACCTTAAAGTATAATAATAAATAA 93290

QY 1039 -----CAAATGGCTCCACTTCAGTTCTGTATGAAGAACTCAGGT 1076
Db 93291 TTAACAAAAAATAGAGTTTCATACCAATGGGCCACTTCAGTTCTGTATAAGAACTCAGAT 93350

QY 1077 TCCGTGGACTCCCTGTATAAAGTGAATTAAGTCTTTATGATTTCCCATAGAAATGAACT 1136
Db 93351 TCCGTGGACTCCCTGTATAAAGTGAATTAAGTCTTTATGATTTCTCATAGAACTGAAT 93410

QY 1137 CAAAGGAGGTAAAGCAAGGGGTGTGCGGATTTCTTTGCTACTGCTGCAGCTGCAGCCCC 1196
Db 93411 CAAAGGAGGTCAATCAAGGGGTGTGCGGATTTCTTTGCTACTGCTGCAGCTGCAGCCCC 93470

QY 1197 ACCTCTCTTCCAGACATATAAATTTACAGAGCTTGACCTTAAGACTGTGTGTGAGGGCA 1256
Db 93471 GCCTCTCTTCCAGACATATAAATTTACAGAGCTTGCTTCTTAAGACTGTGTGTGAGGGCA 93530

QY 1257 GGGATGCTTCCAGGAGACAGCCCAAGCAAAACAGACACAGCTGAAAGTAAAGACTCAGA 1316
Db 93531 GGGATGCTTCCAGGAGACAGCCCAAGCAAAACAGACACAGCTGAAAGTAAAGACTCAGA 93590

QY 1317 GGAGACAGTTTGAAGAGGCAAGTGGCGATG 1346
Db 93591 GAAGACAGTTTGAAGAGGCAAGTGGCGATG 93620

RESULT 5
US-10-257-166-149
; Sequence 149, Application US/10257166
; Publication No. US20040023230A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian

Query Match		45.8%;	Score 616.8;	DB 7;	Length 8776;
Best Local Similarity		68.8%;	Pred. No. 4.3e-186;		
Matches 924;		Conservative	0;	Mismatches 407;	Indels 13; Gaps 5;
Qy	3	AAGCACTACATGTCATCAACGAGTAATGGGTAAGAGAGTACTTCACTTATGACACA	62		
Db	5019	AAACAACTAATATCCATCAACAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4960		
Qy	63	ATGGAGTACAAATTCAGCCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	122		
Db	4959	ATAAACAACAATTCACCAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4900		
Qy	123	GGAACTCAGGTCAATATGTTAGTAAATAAAGCCAGGACACAAAGACAGACATGTCAT	182		
Db	4899	AAACTAAATCATCATATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4840		
Qy	183	GTTCTCACTTATTTGTTGGGATCTACAAATCAAAATCAAAATGAGCTAATGCTGGGTCTTAG	242		
Db	4839	ATTCTCACATCTTATTAATAATCAAAATCAAAATCAAAATCAAAATCAAAATCAAAATCA	4780		
Qy	243	TCAATTTTGTACCTTAAGTACAGGAGCAGAGCCATTAGAATACATGATCAATGCTTTAA	302		
Db	4779	TCAATATTTATACCC-AAATACTAAACAACTTTTAAATAATACATCAATAATCTTTAA	4721		
Qy	303	TACAGGAATGAATAGGTGAGAGGCACAGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	362		
Db	4720	TACAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4661		
Qy	363	TTCTTGAACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCAT-GTATGTTACCTTC	421		
Db	4660	TTCTTGAACATTCAGTACAACTCTCAACAAATAAATCTCTCATATTAATATATACCTTA	4601		
Qy	422	TGAGGAATTAAGTGGGAGACATGCTCTTATTAATTTTCTTTGCTTTCAGAAACAAGACCAAT	481		
Db	4600	TAAATAATTAATAAACAATAAATAAATTTCTATTAATTTTCTTTTACAAAACAACCAACT	4541		
Qy	482	GCATTAGTTGGAAACAGTGTGCTGCTGATCTGAGCCCCAAGCAACCAATAGTCTATTGC	541		
Db	4540	TTATTAAATTAACACAAAT-ATACTACATTAATAATCCCAACCAACCAATTAATCTATTAC	4482		
Qy	542	TATCACCACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCAAC	601		
Db	4481	TATCACCACAAATCAAAAAATAAATAA-----GCCCAACATCTCACCAAAAAACAC	4428		
Qy	602	TCCACCAACATTTCTGTCTACCCACCATGTGTACAGTACCCTGCTAGGCTCCAGGGTCAT	661		
Db	4427	TCCACCAACATTTCTTAATTTACCCACCATATATACATACCCCTACTAAACCAAAATCAT	4368		
Qy	662	GAAAGTAAATAACAGACTGTGCCCTTGAGGAACTCACCTCTGTGAAGGAAACAGGC	721		
Db	4367	AAATAAATAATACCAAACTATACCTTAAATAAACTCACCTCTACTTAAATAAAACAAAC	4308		
Qy	722	ACAGAAACCCCAAGGGTGTAGAGAGAAATAGGACAAATAGGACTGTGTGAGGGGATA	781		
Db	4307	ATAAAAACTTACAATAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	4248		
Qy	782	GGAGGCCACCCAGAGGAGGAATGTTATCTGTGTGAGGAGGTTGGTAAAGAAAGACTT	841		
Db	4247	AAAAAACCCCAAAAAATAAATAATATTAATTAATAAATAAATAAATAAATAAATAAATA	4188		
Qy	842	TAAATAGAGGGGTCTGTCTGGCTGGCTTGCAGAGATGTGTGAGGATCATCTAGGGGCA	901		
Db	4187	TAACAAAAAATCTATCTAATCTAACTTAACTTAAATAAATAAATAAATAAATAAATAA	4128		
Qy	902	CAAGTACATCTCCAGGACAGGGAATTCATGGGTAAAGATCTGCAAGTTGTGGCTTGTGGG	961		
Db	4127	CAATACACTCCAAACAAAAATAATTCGTAATAAATAAATAAATAAATAAATAAATAAATA	4068		
Qy	962	GATGGATTTCAAGTATTTCTGAATCAAGACAGCCATGGAACAAGGGCAGGTGAGAGAT	1021		
Db	4067	AATAAATTTCAATTTATTTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4012		
Qy	1022	ATTTAAGAGGGCTTCATGCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCGGT	1081		

Db	4011	AATTAATAAATTTATACCAATAAATCCACTTAAATTTCTAATAAATAAATAAATAAATAA	3952																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Db 12427 AGGTCCAGGGAGGAAATGGTTATCTGTGTGAGGAGTTGGTGAGGAAAGACTCTTA 12486
QY 844 ATAGAAGGGGTCTGTCTGGCTGGGCTTTCAGAGGATGTGTAGGAGTCACTTAGGGGGCACA 903
Db 12487 AGAGAA-GGCTCTGTCTGTGGGTTTGGAGGATGTGTAGGAGTCTTCTAGGGGGCACA 12545
QY 904 AGTACACTCCAGGAGAGGAAATTCATGGGTAAAGATCTGCAGTTGTGTGGGGA 963
Db 12546 GGCACACTCCAG-----GCATAGGTAAAGATCTGTAGGTGTGGCTTGTGGGA 12593
QY 964 TGGATTTCAAGTATTCCTGGAATGAAGACAGCCATGGAAACAAGGGCAGGTGTAGAGGATAT 1023
Db 12594 TGAATTTCAAGTATTTTGGAAATGAGGACAGCCATAGAGACAAGGGCAAGAGAGGCGAT 12653
QY 1024 TTAAGAGGCTTCATGCGCAATGGCTCCACTTTCAGTTTCTGATAAGAACTCAGGTTCCGTGG 1083
Db 12654 TTAATAGATTTTATGCCAATGGCTCCACTTTCAGTTTCTGATAAGAACTCAGGTTCCGTGG 12713
QY 1084 ACTCCCTGATAAACTGATTAAGTTGTTTATGATTTCCCAATAGAAATATGAATCTCAAAGGA 1143
Db 12714 ACTCCCGAGTAACATTTGATTTGAGTTGTTTATGATACCTCATAGAAATATGAATCTCAAAGGA 12773
QY 1144 GGTAAAG-CAAAGGGGTGTGGCATTCCT----- 1171
Db 12774 GGTAGTGTGTGTGTGTGATCTTTTGCCAACTTCCAAAGGTGGAGAGGCTCTTCC 12833
QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCCAGCTCTTTC 1205
Db 12834 AACTGCAGGACAGACAGAGTGGCCCTGCTACTGGCTGCAGCTCCAGCCCTGCTCTTTC 12893
QY 1206 TCAGCACATAAATTCACAGAGTTGACCTAA-GACTGCTGTGCAGGGCAGGGATGCT 1264
Db 12894 TCTAGCATATAAACAATCCACAGCCTCACTGAATCACTGCTGTGCAGGGCAGGAAAGCT 12953
QY 1265 CCAGGACAGAGCCAGCAACACAGCACAGCTGAAGTAAGACTCAGAGAGACAG 1324
Db 12954 CCATGCACATAGCCCAAGAGACACACAGAGCTGAAGGAAAGACTCAGAGGAGAG 13013
QY 1325 TTGAAGAAAGGCAAGTGGCGATG 1346
Db 13014 ATAAGTAAGAAAGTAGTAGT 13035

RESULT 8

US-10-146-575-3
; Sequence 3, Application US/10146575
; Publication No. US20030059800A1
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; CURRENT APPLICATION NUMBER: US/10/146,575
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US/09/144,367
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-10-146-575-3

Query Match 32.6%; Score 438.8; DB 5; Length 1345;
Best Local Similarity 76.5%; Pred. No. 2.3e-129;
Matches 646; Conservative 1; Mismatches 123; Indels 74; Gaps 6;

QY 562 GGATGACACACAGGGGCCAGCAATCTCCACCAAGTCAACTCCACCAACATTTCTGGTCA 621
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Db 382 GGATGATAGCAGAGAGCCCGAGCAATCTCAGCTAAGTCAACTCCACGAGCCTTTCTAGTTG 441
QY 622 CCACCATGTGTACAGTACCTGCTAGGGTCCAGGGTCTATGAAGTAAATAATACACAGAC 681
Db 442 CCCACTGTGTGTACAGCACCTGTTAGGAGCCAGAGCCATGACAGGGATTAAGACTAGAC 501
QY 682 TGTGCCCTTGAGGAACTCACCTCTGCTAAAGGGAAAACAGGCACAGAAAACCCACAAGGGTGG 741
Db 502 TATGCCCTTGAGGAGCTCACCTCTGTTTCAGGGAAAACAGGCGTGGAAA--CACAAATGGTGG 559
QY 742 TAGAGGAAATAGGACAAATAGGACTGTGTAGGGGGATAGGAGGCACCCAGAGAGGAGAA 801
Db 560 TAAAGAGGAAAGAGGACAAATAGGATTGCAATAGAGGGATGGAAGATGCCCGGGAGGAA 619
QY 802 ATGGTTACATCTGTGTGAGGAGTTTGGTAAAGAAAGACTTTAATAGAGGGGTCTGTCTG 861
Db 620 ATGGTTACATCTGTGTGAGGAGTTTGGTGAAGAAAGACTCTAAGAGAA--GGCTCTGTCTG 678
QY 862 GCTGGGCTTGCAGGAGATGTGTAGGAGTCACTCTAGAGGGGCAAAAGTACACTCCAGGGCAGAG 921
Db 679 TCTGGGTTTGGAGGAGTGTGTAGGAGTCTTCTAGGGGGCAGAGGCACACTCCAG----- 732
QY 922 GGAATTTGCATGGTAAAGATCTGCAGTTGTGGCTGTGGGATGGAATTTCAAGTATTTCTG 981
Db 733 -----GCATAGGTAAAGATCTGTAGGTGTGGCTTGTGGGATGAATTTCAAGTATTTTG 786
QY 982 GAATGAAGACAGCCATGGAAACAAGGGCAGGTGAGAGGATATTTAAGAGGCTTTCATGCCA 1041
Db 787 GAATGAGGACAGCCATAGAGACAAAGGGCAGAGAGAGGCGATTTAATAGATTTTATGCCA 846
QY 1042 ATGGCTCCAATTGAGTTTCTGATAAGAACTCAGGTTCCGTGGACTCCCTGATATAAACTGA 1101
Db 847 ATGGCTCCAATTGAGTTTCTGATAAGAAACCAGAACCCCTTGGACTCCCGAGTAACATTGA 906
QY 1102 TTAAGTTGTTTATGATTTCCCATAGATATGAATCAAAAGAGGTGAAG--CAAAGGGGTGT 1160
Db 907 TTGAGTTGTTTATGATACCTCATAGAAATATGAATCAAAAGGAGGTCAAGTGGTGTGT 966
QY 1161 GTGCGATTCTT----- 1171
Db 967 GTGTGATCTTTGCCAACTTCCAAAGGTGGAGAGGCTCTTCCAACTGCAGGAGAGACACA 1026
QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCCAGCTCTTCTTCCAGCACATAAACTTT 1223
Db 1027 GTTGGCCCTGCTACTGGCTGCAGCTCCAGCCCTGCTCTCTCTAGCATATAACAATC 1086
QY 1224 CAGCAGCTTGACCTAA-GACTGCTGTGCAGGGCAGGGATGCTCCAGGCAGACAGCCAGC 1282
Db 1087 CAACAGCCTCACTGAATCACTGCTGTGCAGGGCAGGAAAGCTCCATGCAATAGCCGAGC 1146
QY 1283 AAACAACAGCACACAGCTGAAAGTAAAGACTCAGAGGAGACAGTTGAAGAGGCAAGTGGC 1342
Db 1147 AAAGACCAACACAGAGCTGAAAGAAAGACTCAGAGGAGAGAGATAAGTAAGGAAAGTAGT 1206
QY 1343 GATG 1346
Db 1207 GATG 1210

RESULT 9

US-10-085-612-3
; Sequence 3, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Vredenburg, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1


```

; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-085-612-3

Query Match      32.6%; Score 438.8; DB 5; Length 1345;
Best Local Similarity 76.5%; Pred. No. 2.3e-129;
Matches 646; Conservative 1; Mismatches 123; Indels 74; Gaps 6;

QY 562 GGATGACACACAGGGGCCAGCAATCTCACCAAGTCAACTCCACCACCAATTTCTGTGCA 621
DB 382 GGATGATAGCAGAGGCCAGCAATCTCAGTAACTCACTCCACCAGCCTTTCTAGTTG 441
QY 622 CCACACATGTGTACAGTACCTCTAGGCTCCAGGTCATGAAGTAATTAATACCAGAC 681
DB 442 CCCACTGTGTACAGACACCTCTGTAGGACCCAGAGCCATGACAGGGGAATAAGACTAGAC 501
QY 682 TGTGCCCTTCAGGAACCTCACTCTGCTAAGGAAACAGGCACAGAAACCCACAGGGTGG 741
DB 502 TATGCCCTTCAGGAGCTCACTCTGTTCAGGAAACAGGGCTGGAA--CACAAATGGTGG 559
QY 742 TAGAGAGAAATAGGACAAATAGGACTGTGTAGGGGATAGAGGCCACCCAGAGGAGAA 801
DB 560 TAAAGAGAAAGAGGACAAATAGGATTCATGAAGGGATGAAAGTCCACCACTCCAG 619
QY 802 ATGGTTACATCTGTGTAGAGTCTGTAGGCTTGTGGGATGGAATTTCAAGTATTTCTG 981
DB 732 -----GCATAGGTAAGATCTGTAGGCTTGTGGGATGGAATTTCAAGTATTTCTG 786
QY 982 TTAAGTTGTTTATGATTTCCCATAGATATGAACTCAAGAGGTAAG--CAAGAGGGTGT 1160
DB 907 TTGAGTTGTTTATGATCTCATAGATATGAACTCAAGAGGTCAGTGAAGTGTGT 966
QY 1161 GTGCAATTTT----- 1171
DB 967 GTGTGATTTCTTTGCCAACTTCCAAGTGGAGAAGCCTTCTCCAACTGCAGGCAGACACA 1026
QY 1172 -----TGCTATGGCTGAGCTGAGCCCACTCTCTCCAGCATTAACATTT 1223
DB 1027 GGTGGCCCTGTACTGTGGCTGCAGTCCAGCCCTCGCTCTCTCTAGCATATAACCAATC 1086
QY 1224 CAGCAGCTTGACCTAA--GACTGTCTGTGAGGGCAGGAGTGTCCAGGCAGACAGCCAGC 1282
DB 1087 CAACAGCCTCACTGAACTCACTGTGTGAGGGCAGGAAAGTCTCCATGACATAGCCAGC 1146
QY 1283 AAACAACAGCACAACAGCTGAAAGTAAGACTCAGAGGAGACAGTGTGAAGAGGCAAGTGGC 1342
DB 1147 AAAGAGCAACAACAGAGCTGAAAGGAAGACTCAGAGGAGAGAGATAAGTAAGGAAGTAGT 1206
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QY 1343 GATG 1346
DB 1207 GATG 1210

RESULT 10
US-09-943-115A-1
; Sequence 1, Application US/09943115A
; Publication No. US20030017469A1
; GENERAL INFORMATION:
; APPLICANT: SEQUENOM, Inc.
; APPLICANT: Risinger, Carl
; APPLICANT: Andersson, Maria
; APPLICANT: Lewander, Tommy
; APPLICANT: Olaisson, Erik
; TITLE OF INVENTION: DETECTION OF CYP3A4 AND CYP2C9
; TITLE OF INVENTION: POLYMORPHISMS
; FILE REFERENCE: 52459-20021.00
; CURRENT APPLICATION NUMBER: US/09/943,115A
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: UK 0021286.0
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-943-115A-1
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Query Match      32.6%; Score 438.4; DB 3; Length 1345;
Best Local Similarity 76.4%; Pred. No. 3.1e-129;
Matches 645; Conservative 2; Mismatches 123; Indels 74; Gaps 6;

QY 562 GGATGACACACAGGGGCCAGCAATCTCACCAAGTCAACTCCACCACCAATTTCTGTGCA 621
DB 382 GGATGATAGCAGAGGCCAGCAATCTCAGTAACTCACTCCACCAGCCTTTCTAGTTG 441
QY 622 CCACACATGTGTACAGTACCTCTGTAGGTCATGAAGTAAATAATACCAGAC 681
DB 442 CCACATGTGTATACAGCCTGTGTAGGACCCAGAGCCATGACAGGGAATAAGACTAGAC 501
QY 682 TGTGCCCTTCAGGAACCTCACTCTGTCTAAGGGAAACAGGCACAGAAACCCACAGGGTGG 741
DB 502 TATGCCCTTCAGGAGCTCACTCTGTTCAGGGAAACAGGGCTGGAA--CACAAATGGTGG 559
QY 742 TAGAGAGAAATAGGACAAATAGGACTGTGTAGGGGATAGAGGCCACCCAGAGGAGAA 801
DB 560 TAAAGAGAAAGAGGACAAATAGGATTCATGAAGGGATGGAAGTCCCCAGGGGAGGAA 619
QY 802 ATGGTTACATCTGTGTAGGAGGTTGGTAAAGGAAAGACTTTAATAGAGGGGTCTGTCTG 861
DB 620 ATGGTTACATCTGTGTAGGAGGTTGGTAAAGGAAAGACTCTAAGAGAA--GGCTCTGTCTG 678
QY 862 GCTGGGGCTTCAAGAGATGTGTAGAGTCACTAGGGGGCACAAGTACACTCCAGGCAGAG 921
DB 679 TCTGGGTTTGAAGAGTGTGTAGAGTCTTCTAGGGGGCACAAGTCCACCACTCCAG-- 732
QY 922 GGAATTCATGCTGTGTAGAGTCTGTAGTGTGGCTTGTGGGATGGAATTTCAAGTATTTCTG 981
DB 733 -----GCATAGGTAAGATCTGTAGGCTTGTGGGATGGAATTTCAAGTATTTCTG 786
QY 982 GAATGAGACAGCCATGGAACAGGGCAGGTGAGAGGATATTTAAGAGGCTTCCATGCCA 1041
DB 787 GAATGAGACAGCCATGAGACAGGGCAGGACAGAGCCGATTTAATAGATTTATGCCA 846
QY 1042 ATGGCTCCACTTCAAGTTTCTGATAAGAACTCAGGTTCCGTGGACTCCCTGATAAACTGA 1101
DB 847 ATGGCTCCACTTCAAGTTTCTGATAAGAACTCCAGAAACCCCTTGGACTCCCCAGTAACATGA 906
QY 1102 TTAAGTTGTTTATGATTTCCCATAGATATGAACTCAAGAGGTAAG--CAAGAGGGTGT 1160
DB 907 TTGAGTTGTTTATGATCTCATAGATATGAACTCAAGAGGTCAGTGAAGTGTGT 966
QY 1161 GTGCAATTTT----- 1171
DB 967 GTGTGATTTCTTTGCCAACTTCCAAGTGGAGAAGCCTTCTCCAACTGCAGGCAGACACA 1026
QY 1172 -----TGCTATGGCTGAGCTGAGCCCACTCTCTCCAGCATTAACATTT 1223
DB 1027 GGTGGCCCTGTACTGTGGCTGCAGTCCAGCCCTCGCTCTCTCTAGCATATAACCAATC 1086
QY 1224 CAGCAGCTTGACCTAA--GACTGTCTGTGAGGGCAGGAGTGTCCAGGCAGACAGCCAGC 1282
DB 1087 CAACAGCCTCACTGAACTCACTGTGTGAGGGCAGGAAAGTCTCCATGACATAGCCAGC 1146
QY 1283 AAACAACAGCACAACAGCTGAAAGTAAGACTCAGAGGAGACAGTGTGAAGAGGCAAGTGGC 1342
DB 1147 AAAGAGCAACAACAGAGCTGAAAGGAAGACTCAGAGGAGAGAGATAAGTAAGGAAGTAGT 1206
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Db 907 TTGAGTTGTTATGATACCTCATAGATATATGAACCTCAAGAGGTCAGTGTGTTGT 966
Qy 1161 GTGCGATTCTTT----- 1171
Db 967 GTGTGATTCTTTTGCCAACTTCCAAAGGTGGAGAGCCCTCTTCCAACTGCAGGCAGAGCACA 1026
Qy 1172 -----TGCTACTGCTGACGTGCAGCCCACTCTCTTCCAGCACATAAATTT 1223
Db 1027 GTGTGGCCCTGCTACTGCTGAGCTCCAGCCCTGCTCTCTCTAGCATATAAACAATC 1086
Qy 1224 CAGCAGCTTCACTTAA--GACTGTGTGTCAGGCGAGGATGCTCCAGGCAGACAGCCGAGC 1282
Db 1087 CAACAGCTCACTGAATCACTGTGTGTCAGGCGAGGAAAGCTCCATGCATAGCCGAGC 1146
Qy 1283 AAACAACAGCACAGCTGAAAGTAAGACTCAGAGGAGACAGTTGTAAGAAAGCAAGTGGC 1342
Db 1147 AAAGAGCAACACAGAGCTGAAAGGAAAGACTCAGAGGAGAGAGATAGTAAGGAAAGTAGT 1206
Qy 1343 GATG 1346
Db 1207 GATG 1210

RESULT 11
US-10-121-960C-17
; Sequence 17, Application US/10121960C
; Publication No. US20030145341A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMO, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAWOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; FILE REFERENCE: 9400-0014 / PXE-014.US
; CURRENT APPLICATION NUMBER: US/10/121.960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 15185
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CYP3A4-luc transgene
US-10-121-960C-17

Query Match 32.2%; Score 433; DB 6; Length 15185;
Best Local Similarity 76.0%; Pred. No. 6.9e-127;
Matches 645; Conservative 0; Mismatches 130; Indels 74; Gaps 6;

Qy 544 TCACCACAGACTCAGAGGGATGACACACAGGGGCCAGCAATCTCCACCAAGTCAACTC 603
Db 12189 TCACCAGAAAGTCAGAGGGATGACATGCAGAGGCCAGCAATCTCAGCTAAGTCAACTC 12248
Qy 604 CACCAATTTCTGGTCACTCCACCATGTGTACAGTACCTCTGTAGGTCAGGTCAGGTCATGA 663
Db 12249 CACGAGCTTTCTAGTTGGCCACTGTGTGTACAGCACCTCTGGTAGGGACCCAGAGCCATGA 12308
Qy 664 AAGTAATAATACACAGACTGTGCCCTTGAGAACTCACCTCTGTCTAAGGGAACAGGCAC 723
Db 12309 CAGGANTAGACTAGACTATGCTTTCAGGAGCTCACTCTGTTCAGGGAACAGCGT 12368
Qy 724 AGAAACCAACAGGGTGGTGTAGAGGAAATAGGCAATAGGACTGTGTGTGAGGGGATAGG 783
Db 12369 GGA---CACAATGGTGTAAAGAGGAAAGAGGACAAATAGGATTCATGAAGGGGATGA 12426
Qy 784 AGCACCACAGAGGGAATGGTTACATCTGTGTGAGGAGGTTGGTTAAGGAAGACTTTA 843
Db 12427 AGGTGCCCAAGGGAGGAAATGGTTACATCTGTGTGAGGAGTTTGGTAGGGAAGACTCTA 12486
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Qy 844 ATAGAAAGGGGTCTGTCTGCTGGCTTTCGCAAGATGTGTAGGAGTCAATCTTAGGGGGCACA 903
Db 12487 AGAGAA--GGCTCTGTCTGTCTGGTTTGGAAAGGATGTGTAGGAGTCTTCTTAGGGGGCACA 12545
Qy 904 AGTACACTCCAGGCAGAGGGAATTGCATGGGTAAAGATCTGCAGTTGTGTGGCTTGTGGGA 963
Db 12546 GGCACACTCAG-----GCATAGGTAAAGATCTGTAGGTGTGGCTTGTGGGA 12593
Qy 964 TGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACCAAGGGCAGGTGTAGAGGATAT 1023
Db 12594 TGAATTTCAAGTATTTTGGAAATGAGGACAGCCATAGAGACAAGGCAAGAGAGAGCGAT 12653
Qy 1024 TTAAGAGGCTTCATGCAATGGCTCCACTTCACTTCTAGTTTCTGATAAAGACTCAGGTTCCGTGG 1083
Db 12654 TTAATAGATTTTATGCAATGGCTCCACTTCACTTGTAGTTTCTGATAAAGAACCCCAAGACCCCTTGG 12713
Qy 1084 ACTCCCTGATAAAACATGATTAAGTTCTTTATGATTTCCCATAGAAATATGAATCAAAAGGA 1143
Db 12714 ACTCCCCAGTAACATTTGATTTGATTTGATTTATGATACCTCATAGATATGAATCAAAAGGA 12773
Qy 1144 GGTAAAG--CAAAGGGGTGTGTGCCATTTCTT----- 1171
Db 12774 GGTCACTGAGTGTGTGTGTGATTTCTTTGCCCAACTTCCAAAGTGGAGAAGCCTCTTCC 12833
Qy 1172 -----TGCTACTGGCTGTGAGCTGTGAGCCCCACCTCCTTCC 1295
Db 12834 AACTGCAGGCAGACAGAGGTGGCCCTGCTACTCTGGCTGTGAGCTCCAGCCCTGCTCCTTC 12893
Qy 1206 TCCAGCACATTAACATTTTCAAGCAGCTTGACCTAA--GACTGTCTGTGAGGGCAGGATGCT 1264
Db 12894 TCTAGCATATAAACAATCCAAACAGCTCACTGTAATCACTGTGTGAGGGCAGGAAAGCT 12953
Qy 1265 CCAAGCAGACAGCCAGCAAAACAACAGCACACAGCTGAAAGTAAAGACTCAGAGGAGACAG 1324
Db 12954 CCATGCACATAGCCCAAGAGACACACAGAGCTGAAAGGAGGCTTGGCGGCGCTTAA 13013
Qy 1325 TTGAAGAAG 1333
Db 13014 CTGCAGAAG 13022

RESULT 12
US-10-415-607-1
; Sequence 1, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RFT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 12983
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-1

Query Match 31.2%; Score 420.6; DB 9; Length 12983;
Best Local Similarity 76.8%; Pred. No. 6.1e-123;
Matches 623; Conservative 0; Mismatches 114; Indels 74; Gaps 6;

Qy 544 TCACCACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCCACCAAGTCAACTC 603
Db 12187 TCACCAGAAAGTCAGAGGGATGACATGCAGAGGCCAGCAATCTCAGCTAAGTCAACTC 12246
Qy 604 CACCAACATTTCTGGTGTGTCACCCACCATGTGTACAGTACCTCTGTAGGGTCCAGGGTCATGA 663
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Db 12247 CACGAGCTTCTAGTTGCCACTGTGTACGACCCCTGGTAGGACACAGAGCCATGA 12306
Qy 664 AAGTAATAATACAGACTGTGCCCTTGGAGAACTCACCTCTGTCTAAGGAAACAGGCAC 723
Db 12307 CAGGGAATAAGCTAGACTATGTGCCCTTGGAGAGCTCACCTCTGTCTAAGGAAACAGGCCT 12366
Qy 724 AGAAACCCACAAAGGCTGTAGAGAGGAAATAGGACAAATAGGACTGTGTGAGGGGATAGG 783
Db 12367 GGAAC--CACAACTGGTAAAGAGGAAAGAGGACAAATAGGATTGCATGAAGGGATGGA 12424
Qy 784 AGGACCCACAGAGGAGGAAATGGTTACATCTGTGTGAGGAGGTTGGTAAGGAAAGACTTTA 843
Db 12425 AGGTGCCACAGGAGGAAATGGTTACATCTGTGTGAGGAGGTTGGTAAGGAAAGACTTTA 12484
Qy 844 ATAGAAGGGTCTCTCTGGCTGGCTTGCAGAGGATGTGAGGAGTCTCTAGGGGGCACA 903
Db 12485 AGAGAA--GGCTCTCTGTCTGGCTGGCTTGCAGAGGATGTGAGGAGTCTCTAGGGGGCACA 12543
Qy 904 AGTACACTCCAGGACAGAGGAAATGGCATGGGTAAGATCTGCAGTGTGTGGCTTGTGGGA 963
Db 12544 GGCACACTCCAG-----GCATAGGTAAGATCTGTAGGTGTGGCTTGTGGGA 12591
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Db 12592 TGAATTTCAAGTATTTTGGAAATGAGGACAGCCATAGAGACAAAGGCAAGAGAGGCGAT 12651
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Db 12652 TTAATAGATTTATGCAAAATGGCTCCACTTCAGTTTCTGATAGAACTCAGGTTCCGCTG 12711
Qy 1084 ACTCCCTGATAAACTGATTAAAGTTGTTATGATTTCCCATAGAAATGAACTCAAAGGA 1143
Db 12712 ACTCCCAAGTAACTGATTGAGTTGTTATGATTTACCTCATAGAAATGAACTCAAAGGA 12771
Qy 1144 GGTAAAG--CAAAGGGTGTGTGCGATTCTT----- 1171
Db 12772 GGTCAAGTGTGTGTGTGTGTGTGTCTTTTCCCAACTTTCCAAAGTGGAGAGCCCTCTTCC 12831
Qy 1172 -----TGCTACTGGCTGCAGCTGCAGCCCACTCTTCC 1205
Db 12832 AACTGCAGGACAGACAGAGTGGGCTGTCTACTGGCTGCAGCTGCAGCCCTCTTCC 12891
Qy 1206 TCCAGCACAATAAATTTTCAAGCTGTGACCTAA--GACTGTGTGAGGGGAGGAGTGTCT 1264
Db 12892 TCTAGCATATTAACAATCCAAAGCTTCACTGAATCACTGCTGTGAGGGGAGGAGGAGT 12951
Qy 1265 CCAGGACAGACCCCAAGCAACACAGCACA 1295
Db 12952 CCATGCATAGCCCAAGCAACACAGCACA 12982

RESULT 13
US-09-957-997-1
; Sequence 1, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; EARLIER FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 11186
; TYPE: DNA

; ORGANISM: Homo sapiens
US-09-957-997-1
Query Match 29.3%; Score 394.8; DB 3; Length 11186;
Best Local Similarity 76.0%; Pred. No. 1.1e-114;
Matches 614; Conservative 0; Mismatches 112; Indels 82; Gaps 7;
Qy 544 TCACCAACAGACTCAGAGGGGATGACACACAGAGGGGCCAGCAATCTCACCAAGTCAACTC 603
Db 10403 TCACCAAGAGTCAAGGAAGTGCACACACAGAGGGGCCAGCAATCTCAGCCAACTCACTC 10462
Qy 604 CACCAACATTTCTGGTCAACCCACCATGTGTACAGTACCTCTGTAGGGTCCAGGGTCAATGA 663
Db 10463 CACCAAGCTTTCTGGTCC--CCCACTGTGTGTACAGCACCTGTAGGACCCAGAGCCATGA 10521
Qy 664 AAGTAATAATACAGACTGTGCCCTTGGAGAACTCACCTCTCTAAGGAAACAGGCAC 723
Db 10522 GAGTGAAGTAAAGACAGACTATGCCCTTGGAGAGTCACTCTGTCTAAGGAAACAGGCCT 10581
Qy 724 AGAAACCCACAAAGGCTGTAGAGAGGAAATAGGACAAATAGGACTGTGTGAGGGGATAGG 783
Db 10582 GGAACACACATATGTGTGAAGGAAAGAGACAAATAGAACTGCATGAAGGGATGGA 10641
Qy 784 AGGACCCACAGAGGAGAAATGGTTACATCTGTGTGAGGAGGTTGGTAAGGAAAGACTTTA 843
Db 10642 AAGTGCCACAGGAGGAAATGGTTACTTCTGTGTGAGGGGTTGGTGAAGGAAAGACTCTA 10701
Qy 844 ATAGAAGGGTCTGTCTGGCTGGCTTGCAGAGGATGTGAGGAGTCACTTAGGGGGCACA 903
Db 10702 AGAGAA--GGCTCTGTGTGGCTGGCTATGAAAGATGTGAGGAGTCTTCTAGGGGGCACA 10760
Qy 904 AGTACACTCCAGGACAGAGGAAATGTCATGGGTAAAGATCTGCAGTGTGTGGCTTGTGGGA 963
Db 10761 GGCACACTCCAG-----GCATAGTAAAGATCTGTAGGATGAGCTTGTGGGA 10808
Qy 964 TGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACAAAGGCGCAGGTGAGAGGATAT 1023
Db 10809 TGAGTTTCAAGTATTTCTGGAATGAGGACAGCCATAGAGACA-----AGAGGAGAG 10858
Qy 1024 TTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAGAACTCAGGTTCCGCTG 1083
Db 10859 TTAATAGATTTATGCAAAATGGCTCCACTTGGTTTGTGATAGAAACCCAGAACCCCTTGG 10918
Qy 1084 ACTCCCTGATAAACTGATTAAAGTTGTTATGATTTCCCACTAGAAATATGAATCAAAAGGA 1143
Db 10919 ACTCCCAAGTAACTGATTGAGTTGAGTTGATGATTTCTACATAGATATTAACCTCAATGGA 10978
Qy 1144 GGTAAAG--CAAAGGGTGTGTGCGATTCTT----- 1171
Db 10979 GGTCAAGTGTGTGTGTGTGTGTGTATTTTCCCAACTGCCGAGGTGGAGAGCCCTCTTCC 11038
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Db 11039 GACTGCAGGACAGACAGGGGGCCCTGTACTGTGTGAGTCCAGCTCCAGCCCTCTTCT 11098
Qy 1207 CCAGCACAATAAATTTTCAAGCTGTGACCTAA--GACTGTGTGAGGGGAGGAGTGTCTC 1265
Db 11099 CCAGCATATTAACAATCCAAAGCTTCACTGAATCACTGTGTGAGGGGAGGAGGAGTCTC 11158
Qy 1266 CAGGACAGACCCCAAGCAACACAGCA 1293
Db 11159 CACACACAGACCCCAAGCAACACAGCA 11186

RESULT 14
US-10-415-607-4
; Sequence 4, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION

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; FILE REFERENCE: A-72251/RPT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-4

Query Match      29.3%; Score 394.8; DB 9; Length 11186;
Best Local Similarity 76.0%; Pred. No. 1.1e-114;
Matches 614; Conservative 0; Mismatches 112; Indels 82; Gaps 7;

QY 544 TCACCAAGACTCAGAGGGGATGACACACAGAGGGGCCAGCAATCTCACCAAGTCAACTC 603
DB 10403 TCACCAAGAGTCAGAGGAAGTGACACACAGAGGGGCCAGCAATCTCACCAAGTCAACTC 10462
QY 604 CACCAACATTTCTGGTCACCCACCATGTGTACAGTACCTCTGTAGGTTCCAGGGTCATGA 663
DB 10463 CACCAAGCTTTCTGGTC-CCCACGTGTGTACAGCACCTGTAGGACCAAGGCCATGA 10521
QY 664 AGTAATAATATACAGACTGTGCCCTTGAGGAATCACCTCTCTTAAGGGAACACAGGCAC 723
DB 10522 GAGTGAGTAAGACCAACTATGCCCTTGAGGAGTCACTCTCTTAAGGGAACACAGGCCT 10581
QY 724 AGAAACCCACAGGGTGTAGAGGAATAGACACATAGGACTGTGTAGGGGGATAGG 783
DB 10582 GGAACACACAAATGGTGTAAAGAGGAAGAACAAATAGAACTGTAGTGAAGGGATGA 10641
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QY 904 AGTACTCCAGGCAGAGGAATTCATGGGTAAAGATCTGCAGTGTGTGGCTTGTGGGA 963
DB 10761 GGCACACTCCAG-----GCATAGTAAAGATCTGTAGGATCGCTTGTGGGA 10808
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QY 1084 ACTCCCTGATAAACTGATTAAGTTGTTATGATTTCCCATAGAAATAGAACTCAAAAGGA 1143
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QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCACCTCTCTTCT 1206
DB 11039 GACTGCGAGGACAGCAGGGGGCCCTGCTACTGGCTGCAGCTCCAGCCCTGCTCTTCT 11098
QY 1207 CCAGCACAATAAACTTTACAGACTTTGAACTTAA-GACTGTGTGACGGCAGGAGTGTCT 1265
DB 11099 CCAGCATAATAAACTTAACTCAACAGCCTCACTGAATCACTGTGTGACGGGCAGGAAAGCTC 11158
QY 1266 CAGGCAGACGCCAGCAACACAGCA 1293
DB 11159 CACACACAGCCAGCAAAACAGCAGCA 11186
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RESULT 15
US-09-957-997-4
; Sequence 4, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-4
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Query Match      28.8%; Score 387.2; DB 3; Length 1012;
Best Local Similarity 79.3%; Pred. No. 7.6e-113;
Matches 530; Conservative 0; Mismatches 113; Indels 25; Gaps 5;

QY 544 TCACCAAGACTCAGAGGGGATGACACACAGAGGGGCCAGCAATCTCACCAAGTCAACTC 603
DB 286 TCACCAAGAGTCAGAGGAAGTGACACACAGAGGGGCCAGCAATCTCACCAAGTCAACTC 345
QY 604 CACCAACATTTCTGGTCACCCACCATGTGTACAGTACCTCTGTAGGTTCCAGGGTCATGA 663
DB 346 CACCAAGCTTTCTGGTC-CCCACGTGTGTACAGCACCTGTAGGACCAAGGCCATGA 404
QY 664 AAGTAATAATATACCAAGACTGTGCCCTTGAGGAATCACCTCTCTTAAGGGAACACAGGCAC 723
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QY 724 AGAAACCCACAGGGTGTAGAGGAATAGACAAATAGGACTGTGTAGGGGGATAGG 783
DB 465 GGAACACACAAATGGTGTAAAGAGGAAGAACAAATAGAACTGTAGTGAAGGGATGA 524
QY 784 AGGCACCCAGAGGAGAAATGGTTACATCTGTGTAGGAGGTGTGAAGAAAGACTTTA 843
DB 525 AAGTGCCACGGGAGGAATGGTTACTTCTGTGTAGGGGGTTGGTGAAGAAAGACTCTTA 584
QY 844 ATAGAAGGGTCTGTCTGGCTGGGCTTGCAAGGATGTAGGAGTCACTTAGGGGGCACA 903
DB 585 AGAGAA-GGCTCTGTCTGGCTGGTATGAAGGATGTGTAGGAGTCTTCTAGGGGGCACA 643
QY 904 AGTACTCCAGGCAGAGGGAATTCATGGGTAAAGATCTGCAGTGTGTGGCTTGTGGGA 963
DB 644 GGCACACTCCAGGCATA-----GGTAAAGATCTGTAGGATCGCTTGTGGGA 691
QY 964 TGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACAGGGCAGGTGAGAGGATAT 1023
DB 692 TGAGTTTCAAGTATTTCTGGAATGAGGACAGCCATAGAGACA-----AGAGGAGAG 741
QY 1024 TTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGG 1083
DB 742 TTAATAGATTTTATGCCAATGGCTCCACTTGGTTGTGATAAGAACCCAGAACCTTGG 801
QY 1084 ACTCCCTGATAAACTGATTAAGTTGTTATGATTTCCCATAGAAATAGAACTCAAAAGGA 1143
DB 802 ACTCCCCAGTAACTGATTTGAGTTGTGTATGATTTCTACATAGAAATTAACCTCAATGA 861
QY 1144 GGTAAAG-CAAAGGGGTGTGGCAATCTTCTGCTACTGGCTGCAGCTGCAGCCCCACCTCC 1202
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Qy 1203 TTCTCCAG 1210
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Db 922 GACTGCAG 929

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Job time : 1259 secs

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OM nucleic - nucleic search, using sw model

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Scoring table: IDENTITY NUC

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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Database : Published Applications NA_New.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	150.8	11.2	199321	7	US-11-121-086-10
3	149.2	11.1	138821	7	US-11-121-086-80
4	148.2	11.0	198285	6	US-10-775-169-338
5	148	11.0	150437	7	US-11-112-908-44
6	148	11.0	182314	7	US-11-112-908-45
7	146.4	10.9	152335	7	US-11-121-086-73
8	146	10.8	156250	7	US-11-121-086-86
9	140.8	10.5	171732	7	US-11-121-086-98
10	138.4	10.3	156544	7	US-11-121-086-81
11	138.2	10.3	1080000	6	US-10-928-446A-1
12	138.2	10.3	1080000	6	US-10-928-446A-181
13	138.2	10.3	1080000	6	US-10-928-446A-183
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21	138.2	10.3	1080000	6	US-10-928-446A-199
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23	136.4	10.1	175100	7	US-11-121-086-21

C 24	133.2	9.9	415117	6	US-10-995-561-13274	Sequence 13274, A
C 25	133.2	9.9	1691140	7	US-11-091-018-1	Sequence 1, Appli
C 26	132.8	9.9	645179	6	US-10-995-561-13293	Sequence 13293, A
C 27	129.2	9.6	180574	7	US-11-121-086-70	Sequence 70, Appl
C 28	129.2	9.6	340000	7	US-11-102-978-3	Sequence 3, Appli
C 29	128.2	9.5	96539	6	US-10-995-561-13289	Sequence 13289, A
C 30	127.2	9.5	182303	7	US-11-121-086-45	Sequence 45, Appl
C 31	125.4	9.3	150450	7	US-11-112-908-54	Sequence 54, Appl
C 32	125.4	9.3	191343	7	US-11-112-908-53	Sequence 53, Appl
C 33	124.4	9.2	170995	7	US-11-121-086-35	Sequence 35, Appl
C 34	121.2	9.0	199130	6	US-10-995-561-13233	Sequence 13233, A
C 35	120.4	8.9	201	6	US-10-995-561-13275	Sequence 13275, A
C 36	120.4	8.9	415117	6	US-10-995-561-13274	Sequence 13274, A
C 37	119.6	8.9	48203	6	US-10-995-561-13278	Sequence 13278, A
C 38	119.6	8.9	151870	6	US-10-995-561-13199	Sequence 13199, A
C 39	119	8.8	305312	6	US-10-995-561-13236	Sequence 13236, A
C 40	117.8	8.8	1691140	7	US-11-091-018-1	Sequence 1, Appli
C 41	116.6	8.7	180862	7	US-11-112-908-40	Sequence 40, Appl
C 42	115.8	8.6	61718	6	US-10-995-561-13226	Sequence 13226, A
C 43	111.6	8.3	201	6	US-10-995-561-24966	Sequence 24966, A
C 44	111.6	8.3	169047	7	US-11-121-086-15	Sequence 15, Appl
C 45	111.6	8.3	178877	7	US-11-121-086-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-11-121-086-9
; Sequence 9, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; PRIOR FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 196200
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-9

Query Match	11.2%	Score 150.8;	DB 7;	Length 196200;
Best Local Similarity	81.3%	Pred. No. 7.9e-38;		
Matches 187;	Conservative 0;	Mismatches 42;	Indels 1;	Gaps 1;
QY	1	GGAGCAACCTACATGTCCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA	60	
Db	21225	GGAGCAACCTAAGTGTCCATCGATGAATGAATGAATGTGTGTACATATCCA	21284	
QY	61	CAATGAGTACAAATTCAGCCATCAAAAAGCATGAGATCCTGTCTTTTATAAATGCTGG	120	
Db	21285	CAATGAGTACTATTTCAGCCAT-AAAAAGGAATGAGATCCTGCCATTGCAAGACATGG	21343	
QY	121	CTGGAACTCGAGTCAATATGTTAGTAAATAAGCAGCAGCAGCAGCAGCAGCATTTGC	180	
Db	21344	ATGGAACCTGGAGTCAATATATTAAGTGAATAAAGCAGCAGCAGCAGCAAACTTCA	21403	
QY	181	ATGTTCTCACTTATTTGTGGATCTACAAATCAAAACAAATTTGAGCTAATG	230	
Db	21404	ATGTTCTCACTTATTTGTGGAGCTTTAAATTAATAAATTTGAATGAACTCAT	21453	

RESULT 2

US-11-121-086-10
; Sequence 10, Application US/11121086
; Publication No. US20050266459A1

```
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 199321
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-10

Query Match      11.2%; Score 150.8; DB 7; Length 199321;
Best Local Similarity 81.3%; Pred. No. 8e-38;
Matches 187; Conservative 0; Mismatches 42; Indels 1; Gaps 1;

QY 1 GGAAGCAACCTACATGTCCTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACCTTATGCA 60
DB 144660 GGAAGCAACCTAAAGTGCCCTGACCTGATGAATGGATAAAGAAATGGTGATACATATCCA 144719

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCCTTTATAATAAAGCTGG 120
DB 144720 CAATGGAGTACTATTCAGCCAT-AAAAAGGAATGAGATCCTGCCATTTGCAAGACATGG 144778

QY 121 CTGGAATCGAGGTCAATATTAGTTAGTAAATAAGCCAGGACACACAAAGACAGACATTCG 180
DB 144779 ATGGAATCGAGGTCAATATTAGTTAGTAAATAAGCCAGGACACAAAGACAACTTTCAT 144838

QY 181 ATGTTCTCACTTATTTGGGATCTACAAATCAAAACAATTTGACCTAATG 230
DB 144839 ATGTTCTCACTTATTTGGGAGCTTAAATAATTAACAATTTGAACCTCATG 144888

RESULT 3
US-11-121-086-80
; Sequence 80, Application US/11/121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 80
; LENGTH: 138821
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-80

Query Match      11.1%; Score 149.2; DB 7; Length 138821;
Best Local Similarity 80.9%; Pred. No. 2.1e-37;
Matches 186; Conservative 0; Mismatches 43; Indels 1; Gaps 1;

QY 1 GGAAGCAACCTACATGTCCTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACCTTATGCA 60
DB 104035 GGAAGCAATCTAAGTGTCCTCAATACATGAATGAATAAATAAATAATGTTGATACATATACA 104094

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCCTTTATAATAAAGCTGG 120
DB 104095 CAATGGAGTATTATTCAGCCAT-AAAAACAATGAGATCCTGTCCTTTATTCGAGACATAG 104153

QY 121 CTGGAATCGAGGTCAATATTAGTTAGTAAATAAGCCAGGACACAAAGACAGACATTCG 180
DB 144839 ATGTTCTCACTTATTTGGGAGCTTAAATAATTAACAATTTGAACCTCATG 144888

; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 80
; LENGTH: 138821
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-80

Query Match      11.1%; Score 148.2; DB 6; Length 198285;
Best Local Similarity 80.8%; Pred. No. 5.8e-37;
Matches 185; Conservative 0; Mismatches 43; Indels 1; Gaps 1;

QY 2 GAAGCAACCTACATGTCCTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACCTTATGCA 61
DB 28236 GGAGCAACCTAAAGTGCTATTCGACAGATGAATGGATAAAGAAATGTTGATACATATAC 28177

QY 62 AATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCCTTTATAATAAAGCTGGC 121
DB 28176 AATGGAGTACTATTAGCTA-GAAAAAGAAATGATATCCAGTTATTTGCAACAACATAGA 28118

QY 122 TGAAGTGCAGGTCAATATTAGTTAGTAAATAAGCCAGGACACAAAGACAGACATTCGCA 181
DB 28117 TGAAGTGCAGGTCAATATTAGTTAGTAAATAAGCCAGGATACAGAAAGACAAACATGACA 28058

QY 182 TGTTCTCACTTATTTGGGATCTACAAATCAAAACAATTTGAGCTAATG 230
DB 28057 TGTTCTCACTTATTTGGGATCTAATAAATCAAAACAATTTGAACCTAATG 28009

RESULT 5
US-11-112-908-44
; Sequence 44, Application US/11/112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44
; LENGTH: 150437
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-44

    Query Match      11.0%; Score 148; DB 7; Length 150437;
    Best Local Similarity 83.5%; Pred. No. 5.6e-37;
    Matches 192; Conservative 0; Mismatches 35; Indels 3; Gaps 2;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA 60
Db 4827 GGAAGCAACCTAAGAGTCCAT-AACAGATGAATGGTAAGGAAATGTGGTACTTAGACA 4885

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTCTTTTATAATAAGCTGG 120
Db 4886 CAGTGGAGTACCATTACGCCAT--AAAAAGATGAGATCCTGTCAATTTACAACAACATGG 4943

QY 121 CTGGAACTCGAGTCATTATGTTAGTAAATAAGCCAGGCACACAAAGACAGACATTGC 180
Db 4944 ATGGAACTGGAGATCATTTATGTTAAGTGAATAAGCCAGGCACAGAAAGACAAACATCNC 5003

QY 181 ATGTTCTCACTTATTTGTGGGATCTACAATCAAAACAAATTTGAGCTTAATG 230
Db 5004 TTGTTCTCACTTATTTGTGGGATCTAAAAATCAAAACAGTTGAACCTCATG 5053

RESULT 6
US-11-112-908-45
; Sequence 45, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 182314
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-45

    Query Match      11.0%; Score 148; DB 7; Length 182314;
    Best Local Similarity 83.5%; Pred. No. 6.4e-37;
    Matches 192; Conservative 0; Mismatches 35; Indels 3; Gaps 2;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA 60
Db 67467 GGAAGCAACCTAAGAGTCCAT-AACAGATGAATGGTAAGGAAATGTGGTACTTAGACA 67525

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTCTTTTATAATAAGCTGG 120
Db 67526 CAGTGGAGTACCATTACGCCAT--AAAAAGATGAGATCCTGTCAATTTACAACAACATGG 67583

QY 121 CTGGAACTCGAGTCATTATGTTAGTAAATAAGCCAGGCACACAAAGACAGACATTGC 180
Db 67584 ATGGAACTGGAGATCATTTATGTTAAGTGAATAAGCCAGGCACAGAAAGACAAACATCAC 67643

QY 181 ATGTTCTCACTTATTTGTGGATCTACAATCAAAACAAATTTGAGCTTAATG 230
Db 67644 TTGTTCTCACTTATTTGTGGATCTAAAAATCAAAACAGTTGAACCTCATG 67693

; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-73

    Query Match      10.9%; Score 146.4; DB 7; Length 152335;
    Best Local Similarity 80.4%; Pred. No. 1.9e-36;
    Matches 185; Conservative 0; Mismatches 41; Indels 4; Gaps 1;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA 60
Db 52878 GGAAGCAATCTGTATGTTCATCAGCAGAGAAATGGATAAGAAAAATGTGGTACATACACA 52937

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTCTTTTATAATAAGCTGG 120
Db 52938 CAATGGAGTACTATTTCAGCCATAAAAA--ATGAGATCCTGTCAATTTGCAACAACATGG 52993

QY 121 CTGGAACTGCAGTCACTTATGTTAGTAAATAAGCCAGGCACACAAAGACAGACATTGC 180
Db 52994 ATGGAACTGGGATCATTTATGTTAAGTAAATAAGCCAGGCACAGAAAGCAATACCGT 53053

QY 181 ATGTTCTCACTTATTTGTGGGATCTACAATCAAAACAAATTTGAGCTTAATG 230
Db 53054 ATGTTCTCACTTATTTGTGTGATCTAAAAATCAAAACAAATTAATTAATTAATTAATTA 53103

RESULT 8
US-11-121-086-86
; Sequence 86, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86
; LENGTH: 156250
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-86

    Query Match      10.8%; Score 146; DB 7; Length 156250;
    Best Local Similarity 80.0%; Pred. No. 2.6e-36;
    Matches 184; Conservative 0; Mismatches 45; Indels 1; Gaps 1;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA 60
Db 109295 GGAAGCAACCTAAGTATCCATCAACAGATGAATGGTAAAGAAAAATGTGATACATATA 109354

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTCTTTTATAATAAGCTGG 120
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Db 109355 CAATGGAGTACTATTGAGCCAT-AGAAAACAATGAGATCTTGTCATTGGCAACAACATGG 109413
QY 121 CTGGAACCTGAGGTCAATTATGTTAGGTAAATAAGCCAGGCACACAAAAGACAGACATTGC 180
Db 109414 ATGGAACCTGAGGTCAATTATGTTAGGGAAGAAAGCCAGGCACAGAAAGACAACCTTGA 109473
QY 181 ATGTTCTCACTTATTTGTGGATCTACAAATCAAAAACAATTGAGCTAATG 230
Db 109474 ATGTTCTCACTTATTTCTAGGTGCTAAAGAAAGTAAACAATTGAATTCATG 109523

RESULT 9
US-11-121-086-98/c
; Sequence 98, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 98
; LENGTH: 171732
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-98

Query Match 10.58; Score 140.8; DB 7; Length 171732;
Best Local Similarity 78.78; Pred. No. 1:5e-34;
Matches 181; Conservative 0; Mismatches 47; Indels 2; Gaps 1;

QY 1 GGAAGCAACCTACATGTCCTCATCAACAGATGAATGGGTAAGAGAGAGTACTTCACTTAATGCA 60
Db 35486 GGAAGCAACCTAAATGTTTCATCAATATCACTGGATAAAGAAAATATGATACATATGTA 35427

QY 61 CAATGGAGTCAATTCAGCCATGAAAAAGCATGAGATCCTGCTCTTTTATAATAACGTGG 120
Db 35426 CAATGGAGTCAATTCAGCCATG--AAAAGAAATGAGATTCCTGTCATTGTAACACATGT 35369

QY 121 CTGGAACCTGAGGTCAATTATGTTAGGTAAATAAGCCAGGCACACAAAAGACAGACATTGC 180
Db 35368 GTGGAACCTGGGGTCAATTATCTTAAGTGAATAAAGTCAGACACAGAAAGACAACCTTAC 35309

QY 181 ATGTTCTCACTTATTTGTGGATCTACAAATCAAAAACAATTGAGCTAATG 230
Db 35308 ATGTTCTCACTTATTTGTGGTGTGTAATAATCAGTACAATTTGAACTTTGTG 35259

RESULT 10
US-11-121-086-81
; Sequence 81, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 81
; LENGTH: 156544
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-81
```

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Query Match 10.38; Score 138.4; DB 7; Length 156544;
Best Local Similarity 80.9%; Pred. No. 8.7e-34;
Matches 186; Conservative 0; Mismatches 41; Indels 3; Gaps 2;

QY 1 GGAAGCAACCTACATGTCCTCATCAACAGATGAATGGGTAAGAGAGTACTTCACTTAATGCA 60
Db 3418 GGAAGCAACCTAAGTGTTCATCAACAGATGAATGGGTAAGAAAGAAATGTGTACATATATG 3477

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTCTTTTATAATAACGTGG 120
Db 3478 CAAT--AGTACCATTGAGCCAT-AAAAAGAAATGAGATTCGTCAATTGCAACTACGTGG 3534

QY 121 CTGGAACCTGAGGTCAATTATGTTAGGTAAATAAGCCAGGCACACAAAAGACAGACATTGC 180
Db 3535 ATGAAACTGGAGATCATTTATGCTAAGTAAAAATAAGCCAGGCACAGAAAGACAATATCAC 3594

QY 181 ATGTTCTCACTTATTTGTGGATCTACAAATCAAAAACAATTGAGCTAATG 230
Db 3595 ATGTTCTCACTTATTTGGGGGATCTAAAAATCAAAAACAATTGAAATCAGG 3644

RESULT 11
US-10-928-446A-1
; Sequence 1, Application US/10928446A
; Publication No. US20050277123A1
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
; TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
; FILE REFERENCE: 0274-5785.1US
; CURRENT APPLICATION NUMBER: US/10/928,446A
; PRIOR FILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: 60/359,741
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1080000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825234)
; OTHER INFORMATION: the 'n' at position 825234 may be 'c' or 't'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825270)
; OTHER INFORMATION: the 'n' at position 825270 may be 'c' or 'g'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825401)
; OTHER INFORMATION: the 'n' at position 825401 may be 'c' or 'a'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825428)
; OTHER INFORMATION: the 'n' at position 825428 may be 'g' or 'a'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825473)
; OTHER INFORMATION: the 'n' at position 825473 may be 'g' or 'a'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825765)
; OTHER INFORMATION: a "c" may be deleted at this position
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825828)
; OTHER INFORMATION: the 'n' at position 825828 may be 'c' or 't'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (826041)
; OTHER INFORMATION: the 'n' at position 826041 may be 'a' or 'g'
```



```
;/ NAME/KEY: allele
;/ LOCATION: (826546)
;/ OTHER INFORMATION: the 'n' at position 826546 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (826654)
;/ OTHER INFORMATION: the 'n' at position 826654 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (826826)
;/ OTHER INFORMATION: the 'n' at position 826826 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (826863)
;/ OTHER INFORMATION: the 'n' at position 826863 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (827008)
;/ OTHER INFORMATION: the 'n' at position 827008 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (843055)
;/ OTHER INFORMATION: the 'n' at position 843055 may be 'g' or 'a'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (843118)
;/ OTHER INFORMATION: the 'n' at position 843118 may be 't' or 'c'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (871027)
;/ OTHER INFORMATION: the 'n' at position 871027 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (871140)
;/ OTHER INFORMATION: the 'n' at position 871140 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (871168)
;/ OTHER INFORMATION: the 'n' at position 871168 may be 'c' or 'a'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (872678)
;/ OTHER INFORMATION: the 'n' at position 872678 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (872742)
;/ OTHER INFORMATION: the 'n' at position 872742 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (925859)
;/ OTHER INFORMATION: the 'n' at position 925859 may be 'c' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (993220)
;/ OTHER INFORMATION: the 'n' at position 993220 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (993254)
;/ OTHER INFORMATION: the 'n' at position 993254 may be 'g' or 'a'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1006462)
;/ OTHER INFORMATION: the 'n' at position 1006462 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1007820)
;/ OTHER INFORMATION: the 'n' at position 1007820 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1018038)
;/ OTHER INFORMATION: the 'n' at position 1018038 may be 'a' or 'g'
;/ FEATURE:
```

```
;/ NAME/KEY: allele
;/ LOCATION: (1018704)
;/ OTHER INFORMATION: the 'n' at position 1018704 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1018720)
;/ OTHER INFORMATION: "gct" may be deleted at this position
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1026786)
;/ OTHER INFORMATION: the 'n' at position 1026786 may be 'c' or 'a'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1047134)
;/ OTHER INFORMATION: the 'n' at position 1047134 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1047159)
;/ OTHER INFORMATION: the 'n' at position 1047159 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1047378)
;/ OTHER INFORMATION: the 'n' at position 1047378 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1047739)
;/ OTHER INFORMATION: the 'n' at position 1047739 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1050133)
;/ OTHER INFORMATION: "ttaa" may be deleted at this position
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1050539)
;/ OTHER INFORMATION: the 'n' at position 1050539 may be 'c' or 't'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1062808)
;/ OTHER INFORMATION: the 'n' at position 1062808 may be 'c' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1066392)
;/ OTHER INFORMATION: the 'n' at position 1066392 may be 'a' or 'g'
;/ FEATURE:
;/ NAME/KEY: allele
;/ LOCATION: (1073711)
;/ OTHER INFORMATION: the 'n' at position 1073711 may be 'c' or 't'
;/ FEATURE:
;/ US-10-928-446A-1
```

```
Query Match 10.3%; Score 138.2; DB 6; Length 1080000;
Best Local Similarity 80.5%; Pred. No. 3.6e-33;
Matches 186; Conservative 0; Mismatches 43; Indels 2; Gaps 2;

QY 1 GGAAGCAACCTACATGTCCATCAACAGATGATGGTAAAGAGAGTACTTCACTTATGCA 60
DB 74428 GGAAGTAACTAAGTGTTCATAACAAATGAATCAATAAGAAATGTGGTACATATACA 74487
QY 61 CAATGGAGTACAAATTCAGCCATGAAAGAGCATGAGATCCTGTCTTTTATAATAACGTGG 120
DB 74488 CAATGGAGTACTATTTTAGTCAT-AAAAAGATGAGATCTTATCATTTGCACACATGG 74546
QY 121 CTGGAACCTCAGGTCAATTATGTTAGTAAATAAGCCAGGCACACAAAAGACAGACA-TTG 179
DB 74547 ATGAAACTGGAGGTCAATTAGGTTAAGTGAATAAGCCAGGCACAGAAAAGACAAACATTG 74606
QY 180 CATGTTCTCACTATTGTGGGATCTACAAATCAAAACAAATTCAGCTAATG 230
DB 74607 CATGTTCTCACTATTGTGGGATCTGAAATCAAAAAATCAAAAAATGGAACCTCATG 74657
```

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RESULT 12
US-10-928-446A-181
; Sequence 181, Application US/10928446A
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```
/ Publication No. US20050277123A1
/ GENERAL INFORMATION:
/ APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
/ TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
/ TITLE OF INVENTION: VIRAL BUDDING
/ FILE REFERENCE: 0274-5785.1US
/ CURRENT APPLICATION NUMBER: US/10/928,446A
/ CURRENT FILING DATE: 2004-08-26
/ PRIOR APPLICATION NUMBER: 60/359,741
/ PRIOR FILING DATE: 2002-02-26
/ NUMBER OF SEQ ID NOS: 202
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 181
/ LENGTH: 1080000
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (826985)..(827008)
/ FEATURE:
/ OTHER INFORMATION: full exon 1 range is 826667-827008
/ FEATURE:
/ NAME/KEY: allele
/ LOCATION: (827008)..(827008)
/ OTHER INFORMATION: the 'n' at position 827008 may be 'a' or 'g'
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/ OTHER INFORMATION: exon
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/ OTHER INFORMATION: exon
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/ LOCATION: (1068609)..(1068681)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1073289)..(1073388)
/ OTHER INFORMATION: full exon 30 range is 1073289-1075279
/ US-10-928-446A-181
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Query Match 10.3%; Score 138.2; DB 6; Length 1080000;
Best Local Similarity 80.5%; Pred. No. 3.6e-33;
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Matches 186; Conservative 0; Mismatches 43; Indels 2; Gaps 2;
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Db 74428 GGAAGTAACTAAGTGTTCATACAAATGAATCAATAAGAAATGTGTACATATACA 74487
QY 61 CAATGAGTACAAATTCAGCCATGAAAGAGCATGAGATCCTGTCCTTTTATATAAAGCTGG 120
Db 74488 CAATGGAGTACTATTAGTCAT-AAAAAAGAAATGAGATCTTATCATTTGCAACAACATGG 74546
QY 121 CTGGAAGTCAAGTCAATTTAGTTAGTAAATAGCCAGGCACACAAAGACAGACA-TTG 179
Db 74547 ATGAAACTGGAGTCAATGTTAGTTAAATAGCCAGGCACAGAAAGACAAACATTTG 74606
QY 180 CATGTTCTCACTTATTGTGGGATCTACAAATCAAAACAATTGAGCTAATG 230
Db 74607 CATGTTCTCACTTATTGTGGGATCTGAAATCAAAAATGGAATCAATG 74657

RESULT 13

US-10-928-446A-183
; Sequence 183, Application US/10928446A
; Publication No. US2005027123A1
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
; TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
; FILE REFERENCE: 0274-5785.IUS
; CURRENT APPLICATION NUMBER: US/10/928,446A
; CURRENT FILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: 60/359,741
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 183
; LENGTH: 1080000
; TYPE: DNA
; ORGANISM: Homo sapiens
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; FEATURE:
; OTHER INFORMATION: full exon 1 range is 826667-827008
; FEATURE:
; NAME/KEY: CDS
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; OTHER INFORMATION: exon
; FEATURE:
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; LOCATION: (922549)..(922630)
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; LOCATION: (1073289)..(1073388)
; OTHER INFORMATION: full length exon 30 range is 1073289-1075279
; US-10-928-446A-185

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Best Local Similarity 80.5%;  Pred No. 3.6e-33;
Matches 186;  Conservative 0;  Mismatches 43;  Indels 2;  Gaps 2;

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Db 74428  GGAAGTAAACCTAAGTGTTCATAACAAATCAATCAATAAGAAATGCTGTACATACA 74487
QY 61  CAATGGAGTCAATTCAGCCATGAAGAAAGCATGAGATCCTGCTCTTTTATAATAACGTGG 120
Db 74488  CAATGGAGTACTATTAGTTCAT-AAAAAGAATGAGATCTTATCAITTTGCAACAACATGG 74546
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Db 74547  ATGAAAGTGGAGGTCAATGTTAGGTAAATAAGCCAGGCACAGAAAGACAAACATTTG 74606
QY 180  CATGTTCTCACTTATTGTGGGATCTACAAATCAAAACATTCAGGCTAATG 230
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RESULT 15
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; Sequence 187, Application US/10928446A
; Publication No. US2005027123A1
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
; TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
; TITLE OF INVENTION: VIRAL BUDDING
; FILE REFERENCE: 0274-5785.IUS
; CURRENT APPLICATION NUMBER: US/10/928,446A
; CURRENT FILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: 60/359,741
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 187
; LENGTH: 1080000
; TYPE: DNA

; ORGANISM: Homo sapiens
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US-10-928-446A-187

Query Match      10.3%; Score 138.2; DB 6; Length 1080000;
Best Local Similarity 80.5%; Pred. No. 3.6e-33;
Matches 186; Conservative 0; Mismatches 43; Indels 2; Gaps 2;

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Qy      121  CTGGAACCTGCAGGTCATTTAGTTAGGTAAATAATAGCCAGGCACACAAGACAGACA-TTG 179
Db      74547  ATGAAACTGGAGGTCATTAGGTTAAGTCAAAATAAGCCAGGCACAGAAAAGCAAAACATTG 74606

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Search completed: January 10, 2006, 23:06:18
Job time : 317 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 87.6768 Seconds
(without alignments)
628.495 Million cell updates/sec

Title: US-09-869-169C-19_COPY_850_880

Perfect score: 31

Sequence: 1 ggggtgtctgtggctgggttcgaagatgt 31

Scoring table: IDENTITY NUC

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Searched: 1303057 seqs, 888780828 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents NA.*

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- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	31	100.0	103934	3	US-09-949-016-14433
3	27.4	88.4	35803	3	US-09-949-016-11863
4	27.4	88.4	35804	3	US-09-949-016-12962
5	23.6	76.1	1345	3	US-09-372-339-1
6	23.6	76.1	1345	3	US-09-372-339-2
7	23.6	76.1	1345	3	US-09-144-367-3
8	23.6	76.1	1345	3	US-10-085-612A-3
9	23.6	76.1	31197	3	US-09-949-016-12963
10	23.6	76.1	34172	3	US-09-949-016-14432
11	20.4	65.8	601	3	US-09-949-016-143004
12	20.4	65.8	601	3	US-09-949-016-143005
13	20.4	65.8	265038	3	US-09-949-016-15779
14	19.2	61.9	601	3	US-09-949-016-115100
15	19.2	61.9	601	3	US-09-949-016-115101
16	19.2	61.9	14721	3	US-09-949-016-13507
17	19.2	61.9	93364	3	US-09-949-016-14890
18	19	61.3	40	3	US-09-949-016-14890
19	19	61.3	3381	3	US-09-009-119-1
20	19	61.3	3381	3	US-09-371-507-1
21	19	61.3	3383	6	PCT-US95-09098-1
22	19	61.3	4495	3	US-09-949-016-746
23	19	61.3	4637	3	US-09-023-655-1138
24	19	61.3	4637	3	US-09-949-016-319

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Sequence 67271, A
Sequence 12877, A
Sequence 14393, A
Sequence 17117, A
Sequence 11771, A
Sequence 16233, A
Sequence 12511, A
Sequence 13725, A
Sequence 24, Appl
Sequence 17489, A
Sequence 32584, A
Sequence 155394, A
Sequence 75, Appl
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Sequence 4, Appl
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Sequence 12500, A
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Sequence 14619, A
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Sequence 20204, A
Sequence 35588, A
Sequence 65171, A
Sequence 204725, A
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Sequence 256, App
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Sequence 3194, App
Sequence 5876, App
Sequence 155, App
Sequence 3456, App
Sequence 37, Appl
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Sequence 14936, A
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Sequence 12163, A
Sequence 17526, A
Sequence 12754, A
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Sequence 12751, A
Sequence 12775, A
Sequence 17518, A
Sequence 17519, A
Sequence 12656, A
Sequence 13639, A
Sequence 18084, A
Sequence 18085, A
Sequence 53607, A
Sequence 128892, A
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99	18	58.1	1637	3	US-08-852-824-3	Sequence 3, Appl	c 172	17.8	57.4	96739	3	US-09-949-016-15506	Sequence 15506, A
100	18	58.1	1637	3	US-09-518-383-3	Sequence 3, Appl	c 173	17.8	57.4	109250	3	US-09-949-016-12530	Sequence 12530, A
101	18	58.1	1649	2	US-08-845-566-2	Sequence 2, Appl	c 174	17.8	57.4	109251	3	US-09-949-016-17321	Sequence 17321, A
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c 103	18	58.1	2433	3	US-09-949-016-4821	Sequence 4821, Ap	c 176	17.8	57.4	321022	3	US-09-949-016-14166	Sequence 14166, A
c 104	18	58.1	2433	3	US-09-949-016-4822	Sequence 4822, Ap	c 177	17.8	57.4	455126	3	US-09-949-016-14157	Sequence 14157, A
c 105	18	58.1	3113	3	US-10-028-272-1	Sequence 1, Appl	c 178	17.8	57.4	481115	3	US-09-949-016-11940	Sequence 11940, A
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c 109	18	58.1	5746	3	US-09-949-016-16453	Sequence 16453, A	c 182	17.6	56.8	601	3	US-09-949-016-85903	Sequence 85903, A
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c 112	18	58.1	15621	3	US-09-949-016-16564	Sequence 16564, A	c 185	17.6	56.8	1007	3	US-09-533-559-207	Sequence 207, App
c 113	18	58.1	16742	3	US-09-949-016-12782	Sequence 12782, A	c 186	17.6	56.8	1055	3	US-09-215-131-3	Sequence 3, Appl
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c 115	18	58.1	22404	3	US-09-949-016-11765	Sequence 11765, A	c 188	17.6	56.8	44096	3	US-09-949-016-15208	Sequence 15208, A
c 116	18	58.1	22404	3	US-09-949-016-15398	Sequence 15398, A	c 189	17.6	56.8	50775	3	US-09-949-016-12858	Sequence 12858, A
c 117	18	58.1	26167	3	US-09-454-466-1	Sequence 1, Appl	c 190	17.6	56.8	50776	3	US-09-949-016-15438	Sequence 15438, A
c 118	18	58.1	32666	3	US-09-949-016-16086	Sequence 16086, A	c 191	17.6	56.8	81585	3	US-09-949-016-15427	Sequence 15427, A
c 119	18	58.1	42450	3	US-09-815-048-3	Sequence 3, Appl	c 192	17.6	56.8	106746	3	US-09-326-402C-1	Sequence 1, Appl
c 120	18	58.1	57392	3	US-09-949-016-12070	Sequence 12070, A	c 193	17.6	56.8	106746	3	US-09-326-402C-12	Sequence 12, Appl
c 121	18	58.1	57402	3	US-09-949-016-13293	Sequence 13293, A	c 194	17.6	56.8	422592	3	US-09-949-016-14182	Sequence 33, Appl
c 122	18	58.1	209210	3	US-09-949-016-15094	Sequence 15094, A	c 195	17.4	56.1	552	3	US-09-669-751-33	Sequence 33, Appl
c 123	18	58.1	678533	3	US-09-949-016-14577	Sequence 14577, A	c 196	17.4	56.1	601	3	US-09-949-016-17967	Sequence 17967, A
c 124	18	58.1	678533	3	US-09-949-016-14578	Sequence 14578, A	c 197	17.4	56.1	601	3	US-09-949-016-17968	Sequence 17968, A
c 125	17.8	57.4	261	3	US-08-205-697A-29	Sequence 29, Appl	c 198	17.4	56.1	601	3	US-09-949-016-32906	Sequence 32906, A
c 126	17.8	57.4	261	3	US-08-702-525-29	Sequence 29, Appl	c 199	17.4	56.1	601	3	US-09-949-016-32907	Sequence 32907, A
c 127	17.8	57.4	261	3	US-09-837-867A-29	Sequence 29, Appl	c 200	17.4	56.1	601	3	US-09-949-016-32908	Sequence 32908, A
c 128	17.8	57.4	261	6	PCT-US95-02576-29	Sequence 29, Appl	c 201	17.4	56.1	601	3	US-09-949-016-64268	Sequence 64268, A
c 129	17.8	57.4	601	3	US-09-949-016-84164	Sequence 84164, A	c 202	17.4	56.1	601	3	US-09-949-016-67284	Sequence 67284, A
c 130	17.8	57.4	601	3	US-09-949-016-121057	Sequence 121057, A	c 203	17.4	56.1	601	3	US-09-949-016-67285	Sequence 67285, A
c 131	17.8	57.4	601	3	US-09-949-016-158022	Sequence 158022, A	c 204	17.4	56.1	601	3	US-09-949-016-67286	Sequence 67286, A
c 132	17.8	57.4	601	3	US-09-949-016-158023	Sequence 158023, A	c 205	17.4	56.1	601	3	US-09-949-016-119230	Sequence 119230, A
c 133	17.8	57.4	601	3	US-09-949-016-158024	Sequence 158024, A	c 206	17.4	56.1	601	3	US-09-949-016-167871	Sequence 167871, A
c 134	17.8	57.4	601	3	US-09-949-016-159883	Sequence 159883, A	c 207	17.4	56.1	601	3	US-09-949-016-167872	Sequence 167872, A
c 135	17.8	57.4	601	3	US-09-949-016-159884	Sequence 159884, A	c 208	17.4	56.1	2652	3	US-09-489-039A-6371	Sequence 6371, Ap
c 136	17.8	57.4	601	3	US-09-949-016-159885	Sequence 159885, A	c 209	17.4	56.1	2990	3	US-10-104-047-595	Sequence 595, App
c 137	17.8	57.4	601	3	US-09-949-016-177364	Sequence 177364, A	c 210	17.4	56.1	9578	3	US-09-949-016-17106	Sequence 17106, A
c 138	17.8	57.4	1151	2	US-08-456-104-3	Sequence 3, Appl	c 211	17.4	56.1	24368	3	US-09-949-016-15050	Sequence 15050, A
c 139	17.8	57.4	1151	3	US-08-205-697A-20	Sequence 20, Appl	c 212	17.4	56.1	37996	3	US-09-949-016-16472	Sequence 16472, A
c 140	17.8	57.4	1151	3	US-08-702-525-20	Sequence 20, Appl	c 213	17.4	56.1	47727	3	US-09-949-016-12904	Sequence 12904, A
c 141	17.8	57.4	1151	3	US-09-837-867A-20	Sequence 20, Appl	c 214	17.4	56.1	60417	3	US-09-949-016-13312	Sequence 13312, A
c 142	17.8	57.4	1151	3	US-09-206-132-3	Sequence 3, Appl	c 215	17.4	56.1	62728	3	US-09-949-016-12539	Sequence 12539, A
c 143	17.8	57.4	1151	6	PCT-US95-02576-20	Sequence 20, Appl	c 216	17.4	56.1	100463	3	US-09-949-016-12511	Sequence 12511, A
c 144	17.8	57.4	1163	3	US-08-479-744A-22	Sequence 22, Appl	c 217	17.4	56.1	100468	3	US-09-949-016-13725	Sequence 13725, A
c 145	17.8	57.4	1163	3	US-08-280-757B-22	Sequence 22, Appl	c 218	17.4	56.1	101951	3	US-09-949-016-15648	Sequence 15648, A
c 146	17.8	57.4	1163	3	US-09-425-762-22	Sequence 22, Appl	c 219	17.4	56.1	114183	3	US-09-949-002-849	Sequence 849, App
c 147	17.8	57.4	1163	3	US-09-425-516-22	Sequence 22, Appl	c 220	17.4	56.1	127546	3	US-09-949-002-624	Sequence 624, App
c 148	17.8	57.4	1183	3	US-09-441-411-23	Sequence 12, Appl	c 221	17.4	56.1	131631	3	US-09-949-016-11757	Sequence 11757, A
c 149	17.8	57.4	1261	3	US-08-205-697A-12	Sequence 12, Appl	c 222	17.4	56.1	133358	3	US-09-949-016-16964	Sequence 16964, A
c 150	17.8	57.4	1261	3	US-08-702-525-12	Sequence 12, Appl	c 223	17.4	56.1	133360	3	US-09-949-016-12651	Sequence 12651, A
c 151	17.8	57.4	1261	3	US-09-837-867A-12	Sequence 12, Appl	c 224	17.4	56.1	145320	3	US-09-949-016-15858	Sequence 15858, A
c 152	17.8	57.4	1261	6	PCT-US95-02576-12	Sequence 12, Appl	c 225	17.4	56.1	151266	3	US-09-949-016-13870	Sequence 13870, A
c 153	17.8	57.4	2440	3	US-09-949-016-1036	Sequence 1036, Ap	c 226	17.4	56.1	161652	3	US-09-497-855A-40	Sequence 40, Appl
c 154	17.8	57.4	2440	3	US-09-949-016-1454	Sequence 1454, Ap	c 227	17.4	56.1	161652	3	US-09-949-016-13614	Sequence 13614, A
c 155	17.8	57.4	4988	3	US-09-799-451-557	Sequence 557, App	c 228	17.4	56.1	183202	3	US-09-949-016-16274	Sequence 16274, A
c 156	17.8	57.4	4988	3	US-09-799-451-558	Sequence 558, App	c 229	17.4	56.1	238815	3	US-09-949-016-12147	Sequence 12147, A
c 157	17.8	57.4	8078	3	US-09-702-251-3	Sequence 3, Appl	c 230	17.4	56.1	767677	3	US-09-949-016-12147	Sequence 12147, A
c 158	17.8	57.4	8187	3	US-10-131-827-8866	Sequence 8866, Ap	c 231	17.4	56.1	767677	3	US-09-949-016-17361	Sequence 17361, A
c 159	17.8	57.4	12840	3	US-09-949-016-15720	Sequence 15720, A	c 232	17.2	55.5	304	3	US-09-270-767-25765	Sequence 25765, A
c 160	17.8	57.4	19025	3	US-09-849-334-3	Sequence 3, Appl	c 233	17.2	55.5	394	3	US-09-533-559-7695	Sequence 7695, Ap
c 161	17.8	57.4	19025	3	US-10-274-878-3	Sequence 3, Appl	c 234	17.2	55.5	444	3	US-09-513-999C-27031	Sequence 27031, A
c 162	17.8	57.4	19025	3	US-10-697-266-3	Sequence 3, Appl	c 235	17.2	55.5	467	3	US-09-602-787A-213	Sequence 213, App
c 163	17.8	57.4	21119	3	US-09-453-702B-111	Sequence 111, App	c 236	17.2	55.5	549	3	US-09-118-442-26	Sequence 26, Appl
c 164	17.8	57.4	21119	3	US-10-114-170-111	Sequence 111, App	c 237	17.2	55.5	549	3	US-09-677-064-26	Sequence 86476, A
c 165	17.8	57.4	25431	3	US-09-949-016-13234	Sequence 13234, A	c 238	17.2	55.5	601	3	US-09-949-016-86476	Sequence 86476, A
c 166	17.8	57.4	27120	3	US-09-949-016-16210	Sequence 16210, A	c 239	17.2	55.5	601	3	US-09-949-016-107334	Sequence 107334, A
c 167	17.8	57.4	27120	3	US-09-949-016-16210	Sequence 16210, A	c 240	17.2	55.5	601	3	US-09-949-016-107335	Sequence 107335, A
c 168	17.8	57.4	35064	3	US-09-949-016-12786	Sequence 12786, A	c 241	17.2	55.5	601	3	US-09-949-016-126653	Sequence 126653, A
c 169	17.8	57.4	35065	3	US-09-949-016-13196	Sequence 13196, A	c 242	17.2	55.5	601	3	US-09-949-016-126654	Sequence 126654, A
c 170	17.8	57.4	36620	3	US-09-949-016-16150	Sequence 16150, A	c 243	17.2	55.5	601	3	US-09-949-016-130710	Sequence 130710, A

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245	17.2	55.5	601	3	US-09-949-016-160623	Sequence 160623,	318	17	54.8	1987	2	US-08-426-279-23	Sequence 23, Appl
246	17.2	55.5	601	3	US-09-949-016-160624	Sequence 160624,	319	17	54.8	1987	2	US-08-401-013-23	Sequence 23, Appl
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248	17.2	55.5	601	3	US-09-949-016-181568	Sequence 181568,	321	17	54.8	1987	3	US-08-425-876-23	Sequence 23, Appl
249	17.2	55.5	601	3	US-09-949-016-181569	Sequence 181569,	322	17	54.8	1987	3	US-08-426-876-23	Sequence 23, Appl
c 250	17.2	55.5	601	3	US-09-949-016-181570	Sequence 181570,	323	17	54.8	1987	3	US-08-426-243-23	Sequence 23, Appl
c 251	17.2	55.5	797	3	US-09-949-016-205984	Sequence 205984,	324	17	54.8	1987	3	US-08-401-632-23	Sequence 1, Appl
252	17.2	55.5	900	3	US-09-270-767-10376	Sequence 10376, A	325	17	54.8	2060	3	US-09-370-802-21	Sequence 1, Appl
253	17.2	55.5	957	3	US-09-603-208A-73	Sequence 73, Appl	326	17	54.8	2060	3	US-09-921-259-1	Sequence 1, Appl
254	17.2	55.5	957	3	US-10-012-231A-247	Sequence 247, App	327	17	54.8	2802	3	US-09-949-016-82	Sequence 82, Appl
255	17.2	55.5	957	3	US-10-015-389A-247	Sequence 247, App	328	17	54.8	2802	3	US-09-949-016-1451	Sequence 1451, Ap
256	17.2	55.5	957	3	US-10-006-768A-247	Sequence 247, App	329	17	54.8	3048	2	US-09-949-016-1454	Sequence 2, Appl
257	17.2	55.5	957	3	US-10-006-768A-247	Sequence 247, App	330	17	54.8	3048	2	US-08-313-200-2	Sequence 1, Appl
258	17.2	55.5	957	3	US-10-015-393A-247	Sequence 247, App	331	17	54.8	3048	2	US-09-251-039-1	Sequence 2, Appl
259	17.2	55.5	957	3	US-10-011-833A-247	Sequence 247, App	332	17	54.8	3331	6	PCT-US93-03837-2	Sequence 21, Appl
260	17.2	55.5	957	3	US-10-006-041A-247	Sequence 247, App	333	17	54.8	3331	2	US-07-999-280A-21	Sequence 21, Appl
261	17.2	55.5	1344	3	US-10-012-064A-247	Sequence 247, App	334	17	54.8	3331	2	US-08-426-036-21	Sequence 21, Appl
262	17.2	55.5	1652	3	US-09-248-796A-2609	Sequence 2609, Ap	335	17	54.8	3331	2	US-08-426-279-21	Sequence 21, Appl
c 263	17.2	55.5	1752	3	US-09-949-016-13603	Sequence 3603, Ap	336	17	54.8	3331	2	US-08-401-013-21	Sequence 21, Appl
264	17.2	55.5	2609	3	US-09-602-787A-211	Sequence 211, App	337	17	54.8	3331	3	US-08-426-570-21	Sequence 21, Appl
265	17.2	55.5	2652	3	US-10-104-047-1941	Sequence 1941, Ap	338	17	54.8	3331	3	US-08-425-876-21	Sequence 21, Appl
c 266	17.2	55.5	2652	3	US-10-195-970-4	Sequence 4, Appl	339	17	54.8	3331	3	US-08-426-243-21	Sequence 21, Appl
c 267	17.2	55.5	2652	3	US-10-195-970-5	Sequence 5, Appl	c 339	17	54.8	5490	3	US-08-401-632-21	Sequence 21, Appl
c 268	17.2	55.5	2855	2	US-08-776-597A-1	Sequence 1, Appl	340	17	54.8	7845	3	US-09-607-510-1	Sequence 1, Appl
269	17.2	55.5	11366	3	US-08-693-228-1	Sequence 1, Appl	341	17	54.8	13693	3	US-09-949-016-14467	Sequence 14467, A
c 270	17.2	55.5	15507	3	US-09-949-016-13616	Sequence 13616, A	342	17	54.8	13693	3	US-09-949-016-15033	Sequence 15033, A
c 271	17.2	55.5	15511	3	US-09-949-016-17413	Sequence 17413, A	343	17	54.8	13693	3	US-09-949-016-15034	Sequence 15034, A
272	17.2	55.5	15615	3	US-09-949-016-11891	Sequence 11891, A	344	17	54.8	13693	3	US-09-949-016-15035	Sequence 15035, A
273	17.2	55.5	18448	3	US-09-949-016-17221	Sequence 17221, A	345	17	54.8	13693	3	US-09-949-016-15036	Sequence 15036, A
274	17.2	55.5	42250	3	US-09-949-016-15345	Sequence 15345, A	346	17	54.8	13814	3	US-09-949-016-16370	Sequence 16370, A
275	17.2	55.5	58273	3	US-09-949-016-15426	Sequence 15426, A	347	17	54.8	13814	3	US-09-949-016-16371	Sequence 16371, A
276	17.2	55.5	62873	3	US-09-949-016-15676	Sequence 15676, A	348	17	54.8	13814	3	US-09-949-016-16372	Sequence 16372, A
277	17.2	55.5	64638	3	US-09-949-016-11767	Sequence 11767, A	349	17	54.8	24522	3	US-09-949-016-11853	Sequence 11853, A
278	17.2	55.5	64639	3	US-09-949-016-13520	Sequence 13520, A	350	17	54.8	24522	3	US-09-949-016-15707	Sequence 15707, A
279	17.2	55.5	77536	3	US-09-410-551B-1	Sequence 1, Appl	351	17	54.8	42510	3	US-09-949-016-13882	Sequence 13882, A
c 280	17.2	55.5	77536	3	US-09-410-551B-1	Sequence 1, Appl	352	17	54.8	58976	3	US-09-949-016-14469	Sequence 14469, A
281	17.2	55.5	77536	3	US-09-940-316B-1	Sequence 1, Appl	353	17	54.8	58976	3	US-09-949-016-15097	Sequence 15097, A
c 282	17.2	55.5	77536	3	US-09-940-316B-1	Sequence 1, Appl	354	17	54.8	73519	3	US-09-949-016-16344	Sequence 16344, A
c 283	17.2	55.5	79350	3	US-09-949-016-12467	Sequence 12467, A	355	17	54.8	80411	3	US-09-949-016-15777	Sequence 15777, A
c 284	17.2	55.5	79351	3	US-09-949-016-16275	Sequence 16275, A	356	17	54.8	102008	3	US-09-949-016-16617	Sequence 16617, A
285	17.2	55.5	87594	3	US-09-949-016-12135	Sequence 12135, A	357	17	54.8	105919	3	US-09-949-016-11769	Sequence 11769, A
286	17.2	55.5	87611	3	US-09-949-016-16139	Sequence 16139, A	358	17	54.8	126200	3	US-09-949-016-11824	Sequence 11824, A
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288	17.2	55.5	125672	3	US-09-949-016-16956	Sequence 16956, A	360	17	54.8	137226	3	US-09-949-016-13763	Sequence 13763, A
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c 290	17.2	55.5	143644	3	US-08-949-016-15328	Sequence 15051, A	362	17	54.8	393753	3	US-09-949-016-14573	Sequence 14573, A
c 291	17.2	55.5	150780	3	US-09-949-016-14711	Sequence 15238, A	363	17	54.8	393753	3	US-09-949-016-14574	Sequence 14574, A
c 292	17.2	55.5	151088	3	US-09-949-016-16240	Sequence 14711, A	364	17	54.8	451924	3	US-09-949-016-12896	Sequence 12896, A
293	17.2	55.5	152486	3	US-09-949-016-12869	Sequence 16240, A	365	17	54.8	451925	3	US-09-949-016-17305	Sequence 17305, A
294	17.2	55.5	154600	3	US-09-949-016-14757	Sequence 12869, A	c 366	17	54.8	536165	3	US-09-214-808-1	Sequence 1, Appl
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c 296	17.2	55.5	187848	3	US-09-949-016-12111	Sequence 14184, A	368	17	54.8	818128	3	US-09-949-016-14547	Sequence 14547, A
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c 298	17.2	55.5	194790	3	US-09-949-016-15393	Sequence 11869, A	370	17	54.8	818128	3	US-09-949-016-14549	Sequence 14549, A
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c 301	17	54.8	295	3	US-09-621-976-2149	Sequence 17056, A	373	17	54.8	818128	3	US-09-949-016-14552	Sequence 14552, A
302	17	54.8	601	3	US-09-949-016-64895	Sequence 2149, Ap	374	17	54.8	818128	3	US-09-949-016-14553	Sequence 14553, A
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305	17	54.8	601	3	US-09-949-016-142806	Sequence 68788, A	377	17	54.8	818128	3	US-09-949-016-14556	Sequence 14556, A
c 306	17	54.8	601	3	US-09-949-016-164209	Sequence 142806, A	378	17	54.8	818128	3	US-09-949-016-14557	Sequence 14557, A
c 307	17	54.8	601	3	US-09-949-016-164209	Sequence 164209, A	379	17	54.8	818128	3	US-09-949-016-14558	Sequence 14558, A
c 308	17	54.8	601	3	US-09-949-016-172153	Sequence 172153, A	380	17	54.8	818128	3	US-09-949-016-14559	Sequence 14559, A
c 309	17	54.8	601	3	US-09-949-016-172154	Sequence 172154, A	381	17	54.8	818128	3	US-09-949-016-14560	Sequence 14560, A
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311	17	54.8	699	3	US-09-540-236-1842	Sequence 1842, Ap	383	17	54.8	818128	3	US-09-949-016-14562	Sequence 14562, A
c 312	17	54.8	700	3	US-09-735-271-52	Sequence 52, Appl	384	17	54.8	818128	3	US-09-949-016-14563	Sequence 14563, A
c 313	17	54.8	1788	3	US-08-303-861-1	Sequence 1, Appl	385	17	54.8	818128	3	US-09-949-016-14564	Sequence 14564, A
314	17	54.8	1788	3	US-09-799-451-362	Sequence 362, App	386	17	54.8	818128	3	US-09-949-016-14565	Sequence 14565, A
315	17	54.8	1782	3	US-09-799-451-362	Sequence 362, App	387	17	54.8	818128	3	US-09-949-016-14566	Sequence 14566, A
316	17	54.8	1987	2	US-07-999-280A-23	Sequence 23, Appl	c 388	17	54.8	4403765	3	US-09-103-840A-2	Sequence 2, Appl
							c 389	17	54.8	4411529	3	US-09-103-840A-1	Sequence 1, Appl

390	16.8	54.2	205	3	US-09-313-294A-1696	Sequence 1696, Ap	c 463	16.8	54.2	2584	2	US-08-322-742-13	Sequence 13, Appl
391	16.8	54.2	270	3	US-09-313-294A-890	Sequence 890, App	c 464	16.8	54.2	2584	2	US-08-477-108A-1	Sequence 1, Appl
c 392	16.8	54.2	277	3	US-09-313-294A-1683	Sequence 1683, Ap	c 465	16.8	54.2	2584	2	US-08-477-112-1	Sequence 1, Appl
393	16.8	54.2	319	3	US-08-956-1718-4349	Sequence 4349, Ap	c 466	16.8	54.2	2584	6	PCT-US93-08322-1	Sequence 1, Appl
394	16.8	54.2	319	3	US-08-781-986A-4349	Sequence 4349, Ap	c 467	16.8	54.2	3171	3	US-09-169-768-19	Sequence 19, Appl
c 395	16.8	54.2	322	3	US-09-270-767-4170	Sequence 4170, Ap	c 468	16.8	54.2	3171	3	US-10-153-469A-19	Sequence 19, Appl
c 396	16.8	54.2	322	3	US-09-270-767-19452	Sequence 19452, A	c 469	16.8	54.2	3171	3	US-10-104-889-19	Sequence 19, Appl
397	16.8	54.2	381	3	US-09-540-236-723	Sequence 723, App	c 470	16.8	54.2	3560	2	US-08-121-713D-59	Sequence 59, Appl
398	16.8	54.2	601	3	US-09-949-016-30481	Sequence 30481, A	c 471	16.8	54.2	3560	2	US-08-835-268-59	Sequence 59, Appl
399	16.8	54.2	601	3	US-09-949-016-53376	Sequence 53376, A	c 472	16.8	54.2	3560	2	US-09-060-693-59	Sequence 59, Appl
400	16.8	54.2	601	3	US-09-949-016-58818	Sequence 58818, A	c 473	16.8	54.2	3560	3	US-08-833-391-59	Sequence 59, Appl
401	16.8	54.2	601	3	US-09-949-016-59359	Sequence 59359, A	c 474	16.8	54.2	3560	3	US-09-060-610-59	Sequence 59, Appl
402	16.8	54.2	601	3	US-09-949-016-59360	Sequence 59360, A	c 475	16.8	54.2	3560	6	PCT-US94-10151A-59	Sequence 59, Appl
403	16.8	54.2	601	3	US-09-949-016-96382	Sequence 96382, A	c 476	16.8	54.2	3997	3	US-09-270-767-28607	Sequence 28607, A
404	16.8	54.2	601	3	US-09-949-016-96382	Sequence 96648, A	c 477	16.8	54.2	4822	3	US-09-270-767-12784	Sequence 12784, A
405	16.8	54.2	601	3	US-09-949-016-96914	Sequence 96914, A	c 478	16.8	54.2	4907	3	US-09-902-540-705	Sequence 705, App
406	16.8	54.2	601	3	US-09-949-016-97180	Sequence 97180, A	c 479	16.8	54.2	4908	3	US-10-001-887-33	Sequence 33, Appl
407	16.8	54.2	601	3	US-09-949-016-97446	Sequence 97446, A	c 480	16.8	54.2	5166	3	US-09-799-451-67	Sequence 67, Appl
408	16.8	54.2	601	3	US-09-949-016-97712	Sequence 97712, A	c 481	16.8	54.2	5235	2	US-09-031-485-35	Sequence 35, Appl
409	16.8	54.2	601	3	US-09-949-016-97978	Sequence 97978, A	c 482	16.8	54.2	5235	2	US-09-031-485-35	Sequence 35, Appl
410	16.8	54.2	601	3	US-09-949-016-98244	Sequence 98244, A	c 483	16.8	54.2	5235	2	US-08-847-429A-35	Sequence 35, Appl
411	16.8	54.2	601	3	US-09-949-016-98510	Sequence 98510, A	c 484	16.8	54.2	5235	2	US-08-847-429A-36	Sequence 36, Appl
412	16.8	54.2	601	3	US-09-949-016-98776	Sequence 98776, A	c 485	16.8	54.2	5235	3	US-09-065-474-35	Sequence 35, Appl
413	16.8	54.2	601	3	US-09-949-016-99042	Sequence 99042, A	c 486	16.8	54.2	5235	3	US-09-065-474-35	Sequence 35, Appl
414	16.8	54.2	601	3	US-09-949-016-99308	Sequence 99308, A	c 487	16.8	54.2	5235	3	US-09-557-034-36	Sequence 35, Appl
415	16.8	54.2	601	3	US-09-949-016-99574	Sequence 99574, A	c 488	16.8	54.2	5235	3	US-09-557-034-36	Sequence 36, Appl
416	16.8	54.2	601	3	US-09-949-016-99840	Sequence 99840, A	c 489	16.8	54.2	5503	2	US-09-031-485-32	Sequence 32, Appl
417	16.8	54.2	601	3	US-09-949-016-100106	Sequence 100106, A	c 490	16.8	54.2	5503	2	US-09-031-485-34	Sequence 34, Appl
418	16.8	54.2	601	3	US-09-949-016-100372	Sequence 100372, A	c 491	16.8	54.2	5503	2	US-08-847-429A-32	Sequence 32, Appl
419	16.8	54.2	601	3	US-09-949-016-100638	Sequence 100638, A	c 492	16.8	54.2	5503	2	US-08-847-429A-34	Sequence 34, Appl
420	16.8	54.2	601	3	US-09-949-016-100942	Sequence 100942, A	c 493	16.8	54.2	5503	3	US-09-065-474-32	Sequence 32, Appl
421	16.8	54.2	601	3	US-09-949-016-101208	Sequence 101208, A	c 494	16.8	54.2	5503	3	US-09-065-474-34	Sequence 34, Appl
422	16.8	54.2	601	3	US-09-949-016-101474	Sequence 101474, A	c 495	16.8	54.2	5503	3	US-09-557-034-32	Sequence 32, Appl
423	16.8	54.2	601	3	US-09-949-016-101740	Sequence 101740, A	c 496	16.8	54.2	5503	3	US-09-557-034-34	Sequence 34, Appl
424	16.8	54.2	601	3	US-09-949-016-161164	Sequence 161164, A	c 497	16.8	54.2	6703	3	US-09-596-002-7	Sequence 7, Appl
c 425	16.8	54.2	601	3	US-09-949-016-179157	Sequence 179157, A	c 498	16.8	54.2	6908	3	US-09-949-016-14842	Sequence 14842, A
c 426	16.8	54.2	601	3	US-09-949-016-188451	Sequence 188451, A	c 499	16.8	54.2	7861	3	US-09-774-528-305	Sequence 305, App
c 427	16.8	54.2	700	3	US-09-735-271-1048	Sequence 1048, Ap	c 500	16.8	54.2	7861	3	US-10-120-988-305	Sequence 305, App
c 428	16.8	54.2	717	3	US-09-489-039A-5257	Sequence 5257, Ap	c 501	16.8	54.2	9968	3	US-09-949-016-12472	Sequence 12472, A
c 429	16.8	54.2	1133	2	US-10-000-489-57	Sequence 57, Appl	c 502	16.8	54.2	9969	3	US-09-949-016-15903	Sequence 15903, A
c 430	16.8	54.2	1227	2	US-09-031-485-17	Sequence 17, Appl	c 503	16.8	54.2	10223	3	US-09-949-016-14500	Sequence 14500, A
c 431	16.8	54.2	1227	2	US-09-031-485-18	Sequence 18, Appl	c 504	16.8	54.2	10642	3	US-09-934-551-3	Sequence 3, Appl
c 432	16.8	54.2	1227	2	US-08-847-429A-17	Sequence 17, Appl	c 505	16.8	54.2	10642	3	US-10-224-414-3	Sequence 3, Appl
c 433	16.8	54.2	1227	2	US-08-847-429A-18	Sequence 18, Appl	c 506	16.8	54.2	17282	3	US-09-949-016-12267	Sequence 12267, A
c 434	16.8	54.2	1227	3	US-09-065-474-17	Sequence 17, Appl	c 507	16.8	54.2	17284	3	US-09-949-016-16000	Sequence 16000, A
c 435	16.8	54.2	1227	3	US-09-065-474-17	Sequence 18, Appl	c 508	16.8	54.2	17318	3	US-09-949-016-13817	Sequence 13817, A
c 436	16.8	54.2	1227	3	US-09-557-034-17	Sequence 17, Appl	c 509	16.8	54.2	20850	3	US-09-949-016-15789	Sequence 15789, A
c 437	16.8	54.2	1227	3	US-09-557-034-18	Sequence 18, Appl	c 510	16.8	54.2	21170	3	US-09-949-016-12480	Sequence 12480, A
c 438	16.8	54.2	1228	2	US-09-031-485-14	Sequence 14, Appl	c 511	16.8	54.2	23094	3	US-09-949-016-13468	Sequence 13468, A
c 439	16.8	54.2	1228	2	US-09-031-485-16	Sequence 16, Appl	c 512	16.8	54.2	27630	3	US-09-949-016-13662	Sequence 13662, A
c 440	16.8	54.2	1228	2	US-08-847-429A-14	Sequence 14, Appl	c 513	16.8	54.2	34125	3	US-09-782-378A-25	Sequence 25, Appl
c 441	16.8	54.2	1228	2	US-08-847-429A-16	Sequence 16, Appl	c 514	16.8	54.2	38564	3	US-09-734-673-3	Sequence 3, Appl
c 442	16.8	54.2	1228	3	US-09-065-474-14	Sequence 14, Appl	c 515	16.8	54.2	39920	3	US-09-949-016-16316	Sequence 16316, A
c 443	16.8	54.2	1228	3	US-09-065-474-16	Sequence 16, Appl	c 516	16.8	54.2	40465	3	US-09-949-016-12561	Sequence 12561, A
c 444	16.8	54.2	1228	3	US-09-557-034-14	Sequence 14, Appl	c 517	16.8	54.2	49301	3	US-09-596-002-27	Sequence 27, Appl
c 445	16.8	54.2	1228	3	US-09-557-034-16	Sequence 16, Appl	c 518	16.8	54.2	49301	3	US-09-949-016-16296	Sequence 16296, A
c 446	16.8	54.2	1266	3	US-09-065-474-141	Sequence 141, App	c 519	16.8	54.2	49559	3	US-09-949-016-12892	Sequence 12892, A
c 447	16.8	54.2	1266	3	US-09-065-474-143	Sequence 143, App	c 520	16.8	54.2	49559	3	US-09-949-016-17267	Sequence 17267, A
c 448	16.8	54.2	1266	3	US-09-557-034-141	Sequence 141, App	c 521	16.8	54.2	57103	3	US-09-949-016-13445	Sequence 13445, A
c 449	16.8	54.2	1266	3	US-09-557-034-143	Sequence 143, App	c 522	16.8	54.2	73295	3	US-09-949-016-15151	Sequence 15151, A
c 450	16.8	54.2	1389	3	US-09-902-540-7367	Sequence 7367, Ap	c 523	16.8	54.2	106418	3	US-09-949-016-13974	Sequence 13974, A
c 451	16.8	54.2	1400	3	US-09-774-490-5	Sequence 5, Appl	c 524	16.8	54.2	139936	3	US-09-949-016-11782	Sequence 11782, A
c 452	16.8	54.2	1566	3	US-09-540-236-273	Sequence 273, App	c 525	16.8	54.2	139952	3	US-09-949-016-13280	Sequence 13280, A
c 453	16.8	54.2	1685	3	US-09-775-046-14	Sequence 14, Appl	c 526	16.8	54.2	141115	3	US-09-949-016-17490	Sequence 17490, A
c 454	16.8	54.2	1785	3	US-10-104-047-799	Sequence 799, App	c 527	16.8	54.2	143644	3	US-09-949-016-15238	Sequence 15238, A
c 455	16.8	54.2	1992	3	US-10-104-047-211	Sequence 211, App	c 528	16.8	54.2	158735	3	US-09-949-016-11989	Sequence 11989, A
c 456	16.8	54.2	2044	3	US-09-227-717-3	Sequence 3, Appl	c 529	16.8	54.2	158735	3	US-09-949-016-17130	Sequence 17130, A
c 457	16.8	54.2	2064	3	US-10-104-047-196	Sequence 196, App	c 530	16.8	54.2	187848	3	US-09-949-016-12111	Sequence 12111, A
c 458	16.8	54.2	2107	3	US-09-775-398-89	Sequence 89, Appl	c 531	16.8	54.2	228851	3	US-09-949-016-13781	Sequence 13781, A
c 459	16.8	54.2	2181	3	US-09-252-931A-10196	Sequence 10196, A	c 532	16.8	54.2	254778	3	US-09-949-016-12417	Sequence 12417, A
c 460	16.8	54.2	2525	3	US-09-799-451-506	Sequence 506, App	c 533	16.8	54.2	263693	3	US-09-949-016-12386	Sequence 12386, A
c 461	16.8	54.2	2566	3	US-09-023-655-1408	Sequence 1408, Ap	c 534	16.8	54.2	263694	3	US-09-949-016-16915	Sequence 16915, A
c 462	16.8	54.2	2584	2	US-08-121-714-1	Sequence 1, Appl	c 535	16.8	54.2	373182	3	US-09-949-016-17371	Sequence 17371, A

C 536	16.8	54.2	373694	3	US-09-949-016-12062	Sequence 12062, A	609	16.6	53.5	601	3	US-09-949-016-187726	Sequence 187726,
C 537	16.8	54.2	767677	3	US-09-949-016-12147	Sequence 12147, A	610	16.6	53.5	601	3	US-09-949-016-187767	Sequence 187767,
C 538	16.8	54.2	767677	3	US-09-949-016-17361	Sequence 17361, A	611	16.6	53.5	601	3	US-09-949-016-191346	Sequence 191346,
C 539	16.8	54.2	818128	3	US-09-949-016-14546	Sequence 14546, A	612	16.6	53.5	601	3	US-09-949-016-191347	Sequence 191347,
C 540	16.8	54.2	818128	3	US-09-949-016-14547	Sequence 14547, A	613	16.6	53.5	601	3	US-09-949-016-202024	Sequence 202024,
C 541	16.8	54.2	818128	3	US-09-949-016-14548	Sequence 14548, A	614	16.6	53.5	601	3	US-09-949-016-202025	Sequence 202025,
C 542	16.8	54.2	818128	3	US-09-949-016-14549	Sequence 14549, A	615	16.6	53.5	601	3	US-09-949-016-204689	Sequence 204689,
C 543	16.8	54.2	818128	3	US-09-949-016-14550	Sequence 14550, A	616	16.6	53.5	601	3	US-09-949-016-204690	Sequence 204690,
C 544	16.8	54.2	818128	3	US-09-949-016-14551	Sequence 14551, A	617	16.6	53.5	725	3	US-09-059-625-36	Sequence 36, Appl
C 545	16.8	54.2	818128	3	US-09-949-016-14552	Sequence 14552, A	618	16.6	53.5	725	3	US-09-059-625-55	Sequence 55, Appl
C 546	16.8	54.2	818128	3	US-09-949-016-14553	Sequence 14553, A	619	16.6	53.5	725	2	US-08-663-310-8	Sequence 8, Appl
C 547	16.8	54.2	818128	3	US-09-949-016-14554	Sequence 14554, A	620	16.6	53.5	729	2	US-09-006-491-8	Sequence 8, Appl
C 548	16.8	54.2	818128	3	US-09-949-016-14555	Sequence 14555, A	621	16.6	53.5	729	2	US-09-335-919-8	Sequence 8, Appl
C 549	16.8	54.2	818128	3	US-09-949-016-14556	Sequence 14556, A	622	16.6	53.5	729	3	US-08-918-288-4	Sequence 4, Appl
C 550	16.8	54.2	818128	3	US-09-949-016-14557	Sequence 14557, A	623	16.6	53.5	834	3	US-08-918-288-38	Sequence 38, Appl
C 551	16.8	54.2	818128	3	US-09-949-016-14558	Sequence 14558, A	624	16.6	53.5	835	3	US-08-918-288-40	Sequence 40, Appl
C 552	16.8	54.2	818128	3	US-09-949-016-14559	Sequence 14559, A	625	16.6	53.5	835	3	US-08-918-288-40	Sequence 40, Appl
C 553	16.8	54.2	818128	3	US-09-949-016-14560	Sequence 14560, A	626	16.6	53.5	835	3	US-08-918-288-2	Sequence 2, Appl
C 554	16.8	54.2	818128	3	US-09-949-016-14561	Sequence 14561, A	627	16.6	53.5	836	3	US-08-918-288-2	Sequence 2, Appl
C 555	16.8	54.2	818128	3	US-09-949-016-14562	Sequence 14562, A	628	16.6	53.5	836	3	US-08-918-288-2	Sequence 2, Appl
C 556	16.8	54.2	818128	3	US-09-949-016-14564	Sequence 14564, A	629	16.6	53.5	837	3	US-08-918-288-38	Sequence 38, Appl
C 557	16.8	54.2	818128	3	US-09-949-016-14565	Sequence 14565, A	630	16.6	53.5	837	3	US-08-918-288-38	Sequence 38, Appl
C 558	16.8	54.2	818128	3	US-09-949-016-14566	Sequence 14566, A	631	16.6	53.5	852	3	US-09-252-991A-16108	Sequence 16108, A
C 559	16.8	54.2	818128	3	US-09-949-016-14567	Sequence 14567, A	632	16.6	53.5	879	3	US-09-252-991A-2380	Sequence 2380, Ap
C 560	16.6	53.5	139	3	US-09-313-999C-31287	Sequence 31287, A	633	16.6	53.5	893	3	US-09-142-320-7	Sequence 7, Appl
C 561	16.6	53.5	188	2	US-08-485-657A-22	Sequence 22, Appl	634	16.6	53.5	893	3	US-09-760-294-7	Sequence 7, Appl
C 562	16.6	53.5	188	3	US-09-366-380-22	Sequence 22, Appl	635	16.6	53.5	976	3	US-09-533-559-419	Sequence 419, App
C 563	16.6	53.5	188	6	PCT-US95-02303-21	Sequence 21, Appl	636	16.6	53.5	1047	2	US-09-134-001C-1905	Sequence 1905, Ap
C 564	16.6	53.5	353	3	US-09-671-317-69	Sequence 69, Appl	637	16.6	53.5	1107	2	US-08-159-969-1	Sequence 1, Appl
C 565	16.6	53.5	387	3	US-09-902-540-2078	Sequence 2078, Ap	638	16.6	53.5	1202	3	US-08-804-166-3	Sequence 3, Appl
C 566	16.6	53.5	483	3	US-09-621-976-2059	Sequence 2059, Ap	639	16.6	53.5	1202	3	US-08-910-991-3	Sequence 3, Appl
C 567	16.6	53.5	519	3	US-09-328-352-3539	Sequence 3539, Ap	640	16.6	53.5	1202	3	US-09-756-186-3	Sequence 3, Appl
C 568	16.6	53.5	522	3	US-08-709-924-1	Sequence 1, Appl	641	16.6	53.5	1301	3	US-08-804-166-7	Sequence 7, Appl
C 569	16.6	53.5	539	2	US-08-709-925-1	Sequence 1, Appl	642	16.6	53.5	1301	3	US-08-910-991-7	Sequence 7, Appl
C 570	16.6	53.5	539	2	US-08-709-948-1	Sequence 1, Appl	643	16.6	53.5	1301	3	US-09-756-186-7	Sequence 7, Appl
C 571	16.6	53.5	539	3	US-09-220-415-1	Sequence 1, Appl	644	16.6	53.5	1301	3	US-09-252-991A-3593	Sequence 3593, Ap
C 572	16.6	53.5	539	3	US-09-675-776-1	Sequence 1, Appl	645	16.6	53.5	1502	3	US-10-104-047-1079	Sequence 1079, Ap
C 573	16.6	53.5	539	3	US-09-676-739-1	Sequence 1, Appl	646	16.6	53.5	1571	6	PCT-US94-12912-2	Sequence 2, Appl
C 574	16.6	53.5	539	3	US-10-050-875-1	Sequence 1, Appl	647	16.6	53.5	1571	6	US-08-663-310-12	Sequence 12, Appl
C 575	16.6	53.5	539	3	US-09-675-362-1	Sequence 1, Appl	648	16.6	53.5	1631	2	US-09-006-491-12	Sequence 12, Appl
C 576	16.6	53.5	539	3	US-09-677-152-1	Sequence 1, Appl	649	16.6	53.5	1631	2	US-09-335-919-12	Sequence 12, Appl
C 577	16.6	53.5	549	3	US-08-318-288-37	Sequence 37, Appl	650	16.6	53.5	1664	3	US-10-104-047-1450	Sequence 1450, Ap
C 578	16.6	53.5	549	3	US-09-282-357-37	Sequence 37, Appl	651	16.6	53.5	1749	3	US-09-252-991A-16004	Sequence 16004, A
C 579	16.6	53.5	575	3	US-08-918-288-35	Sequence 35, Appl	652	16.6	53.5	2111	3	US-10-104-047-1651	Sequence 1651, Ap
C 580	16.6	53.5	575	3	US-09-282-357-35	Sequence 35, Appl	653	16.6	53.5	2595	3	US-09-810-268-2	Sequence 2, Appl
C 581	16.6	53.5	575	3	US-09-949-016-81531	Sequence 81531, A	654	16.6	53.5	2595	3	US-10-132-350-11	Sequence 11, Appl
C 582	16.6	53.5	601	3	US-09-949-016-83979	Sequence 83979, A	655	16.6	53.5	2595	3	US-10-132-350-15	Sequence 15, Appl
C 583	16.6	53.5	601	3	US-09-949-016-84392	Sequence 84392, A	656	16.6	53.5	2595	3	US-09-220-132-60	Sequence 60, Appl
C 584	16.6	53.5	601	3	US-09-949-016-108857	Sequence 108857, A	657	16.6	53.5	2949	3	US-10-132-350-13	Sequence 13, Appl
C 585	16.6	53.5	601	3	US-09-949-016-112180	Sequence 112180, A	658	16.6	53.5	3007	3	US-09-810-268-1	Sequence 1, Appl
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ALIGNMENTS

RESULT 1
US-10-085-612A-4
; Sequence 4, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085.612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612A-4

Query Match 100.0%; Score 31; DB 3; Length 1254;
Best Local Similarity 100.0%; Pred. No. 0.00089;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
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; Sequence 14433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14433
; LENGTH: 103934
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(103934)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14433

Query Match 100.0%; Score 31; DB 3; Length 103934;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31
|||||
Db 86079 GGGTCTGTCTGGCTGGCTTGCAGGATGT 86109

RESULT 3

US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11863

Query Match 88.4%; Score 27.4; DB 3; Length 35803;
Best Local Similarity 96.6%; Pred. No. 0.051;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCTTGCAGGAT 29
|||||
Db 1598 GGGTCTGTCTGGCTGGCTTGCAGGAT 1626

RESULT 4

US-09-949-016-12962
; Sequence 12962, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12962
; LENGTH: 35804
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12962

Query Match 88.4%; Score 27.4; DB 3; Length 35804;
Best Local Similarity 96.6%; Pred. No. 0.051;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTCTGCTGGCTGGCTTGCAGGAT 29
|||
Db 1598 GGGCTCTGCTGGCTGGCTTGCAGGAT 1626

RESULT 5
US-09-372-339-1
; Sequence 1, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-1

Query Match 76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 1.3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGGCTCTGCTGGCTGGCTTGCAGGATGT 31
|||
Db 668 GGGCTCTGCTGGCTGGCTTGCAGGATGT 697

RESULT 6
US-09-372-339-2
; Sequence 2, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-2

Query Match 76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 1.3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGGCTCTGCTGGCTGGCTTGCAGGATGT 31
|||
Db 668 GGGCTCTGCTGGCTGGCTTGCAGGATGT 697

RESULT 7
US-09-144-367-3
; Sequence 3, Application US/09144367
; Patent No. 6432639
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/09/144,367
; CURRENT FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/058,612
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-09-144-367-3

Query Match 76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 1.3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGGCTCTGCTGGCTGGCTTGCAGGATGT 31
|||
Db 668 GGGCTCTGCTGGCTGGCTTGCAGGATGT 697

RESULT 8
US-10-085-612A-3
; Sequence 3, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-CI
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens

US-10-085-612A-3

Query Match 76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 1.3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGCTCTGCTGCTGGCTGGCTTGCAGGATGT 31
|||
Db 668 GGCTCTGCTGCTGGCTTGGGAGGATGT 697

RESULT 9

US-09-949-016-12963
; Sequence 12963, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12963
; LENGTH: 31197
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12963

Query Match 76.1%; Score 23.6; DB 3; Length 31197;
Best Local Similarity 86.7%; Pred. No. 2;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGCTCTGCTGCTGGCTGGCTTGCAGGATGT 31
|||
Db 1565 GGCTCTGCTGCTGGCTTGGGAGGATGT 1594

RESULT 10

US-09-949-016-14432
; Sequence 14432, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14432
; LENGTH: 34172
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-14432

Query Match 76.1%; Score 23.6; DB 3; Length 34172;
Best Local Similarity 86.7%; Pred. No. 2.1;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGCTCTGCTGCTGGCTGGCTTGCAGGATGT 31
|||
Db 1577 GGCTCTGCTGCTGGCTATGAAGGATGT 1606

RESULT 11

US-09-949-016-143004/c
; Sequence 143004, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143004
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-143004

Query Match 65.8%; Score 20.4; DB 3; Length 601;
Best Local Similarity 80.0%; Pred. No. 25;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGCTCTGCTGCTGGCTGGCTTGCAGGATG 30
|||
Db 30 GGCTCTGCTGCTGGCTGCTTGAAGGATG 1

RESULT 12

US-09-949-016-143005/c
; Sequence 143005, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143005
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-143005

Query Match 65.8%; Score 20.4; DB 3; Length 601;
Best Local Similarity 80.0%; Pred. No. 25;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGCTCTGCTGCTGGCTGGCTTGCAGGATG 30
|||
Db 42 GGCTCTGCTGCTGGCTGCTTGAAGGATG 13

; ZIP: 22042
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/09098
; FILING DATE: 20-JUL-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 2185-110P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3383 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Chlamydomonas reinhardtii
; STRAIN: RS-3
; PCT-US95-09098-1

Query Match 61.3%; Score 19; DB 6; Length 3383;
Best Local Similarity 81.5%; Pred. No. 1.3e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GTCTGCTGCTGGCTGGCTTGCAGGATG 30
Db 2008 GTCCCGCTGGATGGCTTGCAGGATG 1982

RESULT 22
US-09-949-016-746/c
; Sequence 746, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 746
; LENGTH: 4495
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-746

Query Match 61.3%; Score 19; DB 3; Length 4495;
Best Local Similarity 81.5%; Pred. No. 1.4e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGGCTTGCAGG 27
Db 4216 GGGGCTGCTGATGGGCTGGCAGG 4190

RESULT 23
US-09-023-655-1138/c
; Sequence 1138, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREMITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1138:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4637 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g186496
; US-09-023-655-1138

Query Match 61.3%; Score 19; DB 3; Length 4637;
Best Local Similarity 81.5%; Pred. No. 1.4e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGGCTTGCAGG 27
Db 4358 GGGGCTGCTGATGGGCTGGCAGG 4332

RESULT 24
US-09-949-016-319/c
; Sequence 319, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 319
; LENGTH: 4637
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-319

Query Match 61.3%; Score 19; DB 3; Length 4637;
Best Local Similarity 81.5%; Pred. No. 1.4e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGGCTGGCTTGCAGG 27
||||| ||||| ||||| ||||| |||||
Db 4358 GGGGCTGCTGGATGGGTGGCAGG 4332

RESULT 25

US-09-949-016-12130/c
; Sequence 12130, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12130
; LENGTH: 52789
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(52789)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12130

Query Match 61.3%; Score 19; DB 3; Length 52789;
Best Local Similarity 81.5%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGCTTGCAGGATGT 31
||||| ||||| ||||| ||||| |||||
Db 51166 TCTGCTGGCTAGCCCCAATGT 51140

RESULT 26

US-09-949-016-16641/c
; Sequence 16641, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03

; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16641
; LENGTH: 52790
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(52790)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16641

Query Match 61.3%; Score 19; DB 3; Length 52790;
Best Local Similarity 81.5%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGCTTGCAGGATGT 31
||||| ||||| ||||| ||||| |||||
Db 51166 TCTGCTGGCTAGCCCCAATGT 51140

RESULT 27

US-09-949-016-13375
; Sequence 13375, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13375
; LENGTH: 70262
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13375

Query Match 61.3%; Score 19; DB 3; Length 70262;
Best Local Similarity 81.5%; Pred. No. 2.1e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGTCGTGCTGGCTGGCTTGCAGGAT 29
||||| ||||| ||||| ||||| |||||
Db 18745 GGTCGGTGGCTGGACAGGCAAGGAT 18771

RESULT 28

US-09-949-016-12748
; Sequence 12748, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12748
; LENGTH: 70263
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12748

Query Match 61.3%; Score 19; DB 3; Length 70263;
Best Local Similarity 81.5%; Pred. No. 2.1e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGTCTGTCTGGCTGGCTTGCAGGAT 29
||| ||||| ||||| |||||
Db 18755 GGTCTGGTGGCTGGACAGGCAAGGAT 18781

RESULT 29
US-09-949-016-67271
; Sequence 67271, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67271
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-67271

Query Match 60.6%; Score 18.8; DB 3; Length 601;
Best Local Similarity 90.9%; Pred. No. 1.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGCTGTCTGCTGGCTGGCTTG 22
||| ||||| ||||| |||||
Db 495 GGGCTGTCTGCTGGCTGGCTTG 516

RESULT 30
US-09-949-016-12877/c
; Sequence 12877, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12877

; LENGTH: 27380
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(27380)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12877

Query Match 60.6%; Score 18.8; DB 3; Length 27380;
Best Local Similarity 90.9%; Pred. No. 2.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGCTTGCAAGG 27
||| ||||| ||||| |||||
Db 21634 CTCTCTGGCTGGCTGGCAAGG 21613

RESULT 31
US-09-949-016-14393/c
; Sequence 14393, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14393
; LENGTH: 27383
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(27383)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14393

Query Match 60.6%; Score 18.8; DB 3; Length 27383;
Best Local Similarity 90.9%; Pred. No. 2.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGCTTGCAAGG 27
||| ||||| ||||| |||||
Db 21634 CTCTCTGGCTGGCTGGCAAGG 21613

RESULT 32
US-09-949-016-17117
; Sequence 17117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08

```
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17117
; LENGTH: 43267
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(43267)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17117

Query Match          60.6%; Score 18.8; DB 3; Length 43267;
Best Local Similarity 90.9%; Pred. No. 2.4e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGGCTTG 22
    |||||
Db 20918 GGGTCTGTCTGGCTGGTGTG 20939

RESULT 33
US-09-949-016-11771
; Sequence 11771, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11771
; LENGTH: 57139
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11771

Query Match          60.6%; Score 18.8; DB 3; Length 57139;
Best Local Similarity 76.7%; Pred. No. 2.5e+02;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGGCTTCAAGGATGT 31
    |||||
Db 13550 GAGTCTTCTGTCTGGCTCCAGGAGGT 13579

RESULT 34
US-09-949-016-16233
; Sequence 16233, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16233
; LENGTH: 57150
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16233

Query Match          60.6%; Score 18.8; DB 3; Length 57150;
Best Local Similarity 76.7%; Pred. No. 2.5e+02;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGGCTTCAAGGATGT 31
    |||||
Db 13550 GAGTCTTCTGTCTGGCTCCAGGAGGT 13579

RESULT 35
US-09-949-016-12511
; Sequence 12511, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12511
; LENGTH: 100463
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(100463)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12511

Query Match          60.6%; Score 18.8; DB 3; Length 100463;
Best Local Similarity 90.9%; Pred. No. 2.7e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGTCTGGCTGGGCTTG 22
    |||||
Db 59040 GGCCTCTGCTGGCTGGGCTTG 59061

RESULT 36
US-09-949-016-13725
; Sequence 13725, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
```


Query Match 59.4%; Score 18.4; DB 3; Length 601;
Best Local Similarity 78.6%; Pred. No. 1.8e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 3 GGTCCTGCTGGCTGGCTTGCAGGATG 30
||||| ||| ||| ||||||| |||||
Db 64 GGTTCCTAGCTCAGCTTGCATGATG 37

RESULT 41
US-08-980-326-75/c
; Sequence 75, Application US/08980326
; Patent No. 6703197
; GENERAL INFORMATION:
; APPLICANT: Gravel, Roy A.
; APPLICANT: Rozen, Rima
; APPLICANT: LeClerc, Daniel
; APPLICANT: Goyette, Philippe
; APPLICANT: Campeau, Eric
; TITLE OF INVENTION: HUMAN METHIONINE SYNTHASE: CLONING, AND
; TITLE OF INVENTION: METHODS FOR EVALUATING RISK OF NEURAL TUBE DEFECTS,
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE AND CANCER
; FILE REFERENCE: 50004/002003
; CURRENT APPLICATION NUMBER: US/08/980,326
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 60/050,310
; EARLIER FILING DATE: 1997-06-20
; EARLIER APPLICATION NUMBER: 60/031,964
; EARLIER FILING DATE: 1996-11-27
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 75
; LENGTH: 3856
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: variation
; LOCATION: (1)...(1265)
; OTHER INFORMATION: Coding sequence for mutant methionine synthases:
; OTHER INFORMATION: 2640-2642 can be AAT or deleted;2756 can be A or
; OTHER INFORMATION: G;2758 can be C or G.
US-08-980-326-75

Query Match 59.4%; Score 18.4; DB 3; Length 3856;
Best Local Similarity 78.6%; Pred. No. 2.4e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGGCTTGCAGGA 28
||||| ||| ||| ||||||| |||||
Db 3549 GTGTCGGCTGGCTGGGTAGCCAGGA 3522

RESULT 42
US-08-980-326-1/c
; Sequence 1, Application US/08980326
; Patent No. 6703197
; GENERAL INFORMATION:
; APPLICANT: Gravel, Roy A.
; APPLICANT: Rozen, Rima
; APPLICANT: LeClerc, Daniel
; APPLICANT: Goyette, Philippe
; APPLICANT: Campeau, Eric
; TITLE OF INVENTION: HUMAN METHIONINE SYNTHASE: CLONING, AND
; TITLE OF INVENTION: METHODS FOR EVALUATING RISK OF NEURAL TUBE DEFECTS,
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE AND CANCER
; FILE REFERENCE: 50004/002003
; CURRENT APPLICATION NUMBER: US/08/980,326
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 60/050,310
; EARLIER FILING DATE: 1997-06-20
; EARLIER APPLICATION NUMBER: 60/031,964
; EARLIER FILING DATE: 1996-11-27

; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 3919
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (1)...(3919)
; OTHER INFORMATION: Entire cloned cDNA encoding wild type methionine
; OTHER INFORMATION: synthase.
US-08-980-326-1

Query Match 59.4%; Score 18.4; DB 3; Length 3919;
Best Local Similarity 78.6%; Pred. No. 2.4e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGGCTTGCAGGA 28
||||| ||| ||| ||||||| |||||
Db 3612 GTGTCGGCTGGCTGGGTAGCCAGGA 3585

RESULT 43
US-09-318-448-2/c
; Sequence 2, Application US/09318448
; Patent No. 6210950
; GENERAL INFORMATION:
; APPLICANT: Johnson, William G.
; APPLICANT: Stenroos, Edward S.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: DEVELOPMENTAL DISORDERS
; FILE REFERENCE: 601-1-057
; CURRENT APPLICATION NUMBER: US/09/318,448
; CURRENT FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 7122
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-318-448-2

Query Match 59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGGCTTGCAGGA 28
||||| ||| ||| ||||||| |||||
Db 3835 GTGTCGGCTGGCTGGGTAGCCAGGA 3808

RESULT 44
US-09-347-878-4/c
; Sequence 4, Application US/09347878C
; Patent No. 6376210
; GENERAL INFORMATION:
; APPLICANT: Yuan, Chong
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
; FILE REFERENCE: 25885-1651
; CURRENT APPLICATION NUMBER: US/09/347,878C
; CURRENT FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 7122
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (287)...(4084)
; OTHER INFORMATION: Human methionine synthase cDNA
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: U75743/GenBank


```
US-09-347-878-4
Query Match          59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3835 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3808

RESULT 45
US-09-577-266-2/c
; Sequence 2, Application US/09577266
; Patent No. 6912492
; GENERAL INFORMATION:
; APPLICANT: Johnson, William G.
; APPLICANT: Stencos, Edward S.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: DEVELOPMENTAL DISORDERS
; FILE REFERENCE: 601-1-057N
; CURRENT APPLICATION NUMBER: US/09/577,266
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/136,198
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 7122
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-577-266-2

Query Match          59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3835 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3808

RESULT 46
US-09-347-878-6/c
; Sequence 6, Application US/09347878C
; Patent No. 6376210
; GENERAL INFORMATION:
; APPLICANT: Yuan, Chong
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
; FILE REFERENCE: 25885-1651
; CURRENT APPLICATION NUMBER: US/09/347,878C
; CURRENT FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (395)..(4192)
; OTHER INFORMATION: Human methionine synthase
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: U73338/GenBank
US-09-347-878-6

Query Match          59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3835 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3808

US-09-347-878-4
Query Match          59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3835 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3808

RESULT 45
US-09-577-266-2/c
; Sequence 2, Application US/09577266
; Patent No. 6912492
; GENERAL INFORMATION:
; APPLICANT: Johnson, William G.
; APPLICANT: Stencos, Edward S.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: DEVELOPMENTAL DISORDERS
; FILE REFERENCE: 601-1-057N
; CURRENT APPLICATION NUMBER: US/09/577,266
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/136,198
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 7122
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-577-266-2

Query Match          59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3835 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3808

RESULT 46
US-09-347-878-6/c
; Sequence 6, Application US/09347878C
; Patent No. 6376210
; GENERAL INFORMATION:
; APPLICANT: Yuan, Chong
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
; FILE REFERENCE: 25885-1651
; CURRENT APPLICATION NUMBER: US/09/347,878C
; CURRENT FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (395)..(4192)
; OTHER INFORMATION: Human methionine synthase
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: U73338/GenBank
US-09-347-878-6

Query Match          59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3835 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3808

US-09-962-665-1/c
; Sequence 1, Application US/09962665
; Patent No. 6537759
; GENERAL INFORMATION:
; APPLICANT: Stanton, Jr., Vincent P.
; TITLE OF INVENTION: POLYPOLYGLUTAMATE SYNTHETASE GENE SEQUENCE
; TITLE OF INVENTION: VARIANCES HAVING UTILITY IN DETERMINING THE
; TITLE OF INVENTION: TREATMENT OF DISEASE
; FILE REFERENCE: 11926-015004
; CURRENT APPLICATION NUMBER: US/09/962,665
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/658,659
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 09/596,033
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/357,743
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 09/357,024
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: 60/093,484
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 194..3209
; OTHER INFORMATION: n = c or g
; NAME/KEY: misc_feature
; LOCATION: 1136, 1334, 3150, 5551, 5934
; OTHER INFORMATION: n = a or g
; NAME/KEY: misc_feature
; LOCATION: 284..1252, 1699, 5573, 5659, 5678, 5874
; OTHER INFORMATION: n = c or t
; NAME/KEY: misc_feature
; LOCATION: 3207
; OTHER INFORMATION: n = g or t
; NAME/KEY: misc_feature
; LOCATION: 5444
; OTHER INFORMATION: n = c or a
US-09-962-665-1

Query Match          59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGA 28
Db 3943 GTGGTCGGGCTGGCTGGGCTAGCCAGGA 3916

US-09-963-333-1/c
; Sequence 1, Application US/09963333
; Patent No. 6664062
; GENERAL INFORMATION:
; APPLICANT: Stanton, Jr., Vincent P.
; TITLE OF INVENTION: THYMIDINE SYNTHASE GENE SEQUENCE VARIANCES
; TITLE OF INVENTION: HAVING UTILITY IN DETERMINING THE TREATMENT
; TITLE OF INVENTION: OF DISEASE
; FILE REFERENCE: 11926-015002
; CURRENT APPLICATION NUMBER: US/09/963,333
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/658,659
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 09/596,033
US-09-963-333-1/c
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; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/357,743
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 09/357,024
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: 60/093,484
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 194..3209
; OTHER INFORMATION: n = c or g
; NAME/KEY: misc_feature
; LOCATION: 1136, 1334, 3150, 5551, 5934
; OTHER INFORMATION: n = a or g
; NAME/KEY: misc_feature
; LOCATION: 284, 1252, 1699, 5573, 5659, 5678, 5874
; OTHER INFORMATION: n = c or t
; NAME/KEY: misc_feature
; LOCATION: 3207
; OTHER INFORMATION: n = g or t
; NAME/KEY: misc_feature
; LOCATION: 5444
; OTHER INFORMATION: n = c or a
; US-09-962-677-1

Query Match          59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 GGGGCTGCTGCTGGCTGGCTTGCAGGA 28
      ||||| ||||| ||||| ||||| |||||
Db      3943 GTGCTCGGCTGGCTGGGTAGCCAGGA 3916

RESULT 50
US-09-949-016-16361
; Sequence 16361, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCES: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16361
; LENGTH: 19085
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-16361

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Best Local Similarity 78.6%; Pred. No. 3.1e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Search completed: January 10, 2006, 23:13:46
Job time : 163.927 secs
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; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/357,743
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 09/357,024
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: 60/093,484
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 16
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Query Match          59.4%; Score 18.4; DB 3; Length 7224;
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RESULT 49
US-09-962-677-1/c
; Sequence 1, Application US/09962677
; Patent No. 6759200
; GENERAL INFORMATION:
; APPLICANT: Stanton, Jr., Vincent P.
; TITLE OF INVENTION: THYMIDINE PHOSPHORYLASE GENE SEQUENCE
; TITLE OF INVENTION: VARIANCES HAVING UTILITY IN DETERMINING
; THE TREATMENT OF DISEASE
; FILE REFERENCE: 11926-015003
; CURRENT APPLICATION NUMBER: US/09/962,677
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/658,659
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 09/596,033
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/357,743
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 09/357,024
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: 60/093,484
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 194..3209
; OTHER INFORMATION: n = c or g
; NAME/KEY: misc_feature
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 593.071 Seconds
(without alignments)
432.243 Million cell updates/sec

Title: US-09-869-169C-19_COPY_850_880

Perfect score: 31

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications NA.Main.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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7	23.6	76.1	1345	5	US-10-146-575-3
8	23.6	76.1	1345	5	US-10-085-612-3
9	23.6	76.1	11186	3	US-09-957-997-1
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18	21	67.7	1000	3	US-09-801-944B-91
19	21	67.7	2784	7	US-10-437-963-58919
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c 28	19.8	63.9	494	5	US-10-027-632-229750	Sequence 229750, A
c 29	19.8	63.9	494	6	US-10-027-632-229750	Sequence 229750, A
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c 46	19.4	62.6	1245	6	US-10-027-632-124022	Sequence 124022, A
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c 51	19.4	62.6	653122	5	US-10-087-193-226	Sequence 226, App
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c 62	19	61.3	4637	6	US-10-173-999-145	Sequence 145, App
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c 67	19	61.3	76670	5	US-10-087-192-2050	Sequence 2050, App
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c 77	18.8	60.6	828	6	US-10-369-493-36226	Sequence 36226, A
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c 91	18.8	60.6	2693	5	US-10-105-891-82	Sequence 82, Appl
c 92	18.8	60.6	2693	3	US-10-972-024-81	Sequence 81, Appl
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c 95	18.8	60.6	8489	10	US-10-257-166-47	Sequence 47, Appli
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	145	18.4	59.4	1863	5	US-10-213-990-32	Sequence 32, Appl	c 218	18.2	58.7	628	7	US-10-424-599-65574	Sequence 65574, A
	146	18.4	59.4	1977	5	US-10-213-990-31	Sequence 31, Appl	c 219	18.2	58.7	635	4	US-09-925-065A-580023	Sequence 580023, A
	147	18.4	59.4	3856	7	US-10-607-712-75	Sequence 75, Appl	c 220	18.2	58.7	677	8	US-10-425-115-152236	Sequence 152236, A
	148	18.4	59.4	3919	7	US-10-607-712-1	Sequence 1, Appli	c 221	18.2	58.7	706	6	US-10-131-487A-15	Sequence 10433, A
	149	18.4	59.4	4887	8	US-10-335-053-294	Sequence 294, App	c 222	18.2	58.7	713	3	US-09-946-374-7	Sequence 7, Appli
	150	18.4	59.4	7243	3	US-10-437-963-86357	Sequence 86357, A	c 223	18.2	58.7	726	5	US-10-052-586-125	Sequence 125, App
	151	18.4	59.4	28000	6	US-10-091-625-11	Sequence 11, Appl	c 224	18.2	58.7	726	5	US-10-174-590-125	Sequence 125, App
	152	18.4	59.4	28000	6	US-10-096-399A-11	Sequence 11, Appl	c 225	18.2	58.7	736	3	US-10-176-758-125	Sequence 125, App
	153	18.4	59.4	28000	6	US-10-461-668-11	Sequence 11, Appl	c 226	18.2	58.7	736	3	US-10-175-737-125	Sequence 125, App
	154	18.4	59.4	28000	6	US-10-388-263-381	Sequence 381, App	c 227	18.2	58.7	756	5	US-10-174-581-125	Sequence 125, App
	155	18.4	59.4	42547	6	US-10-268-822-12	Sequence 12, Appl	c 228	18.2	58.7	756	5	US-10-176-483-125	Sequence 125, App
	156	18.4	59.4	71132	5	US-10-087-192-1867	Sequence 1867, Ap	c 229	18.2	58.7	756	5	US-10-176-749-125	Sequence 125, App
	157	18.4	59.4	72821	9	US-10-461-862-149	Sequence 149, App	c 230	18.2	58.7	756	5	US-10-176-914-125	Sequence 125, App
	158	18.4	59.4	148083	9	US-10-756-149-4571	Sequence 4571, Ap	c 231	18.2	58.7	756	5	US-10-173-706-125	Sequence 125, App
	159	18.4	59.4	185695	5	US-10-020-141-11	Sequence 11, Appl	c 232	18.2	58.7	756	5	US-10-175-738-125	Sequence 125, App
	160	18.4	59.4	185695	5	US-10-017-721-1	Sequence 1, Appli	c 233	18.2	58.7	756	5	US-10-176-483-125	Sequence 125, App
	161	18.4	59.4	195071	8	US-10-741-600-17991	Sequence 17991, A	c 234	18.2	58.7	756	5	US-10-176-914-125	Sequence 125, App
	162	18.4	59.4	213251	7	US-10-398-221-6	Sequence 6, Appli	c 235	18.2	58.7	756	5	US-10-173-706-125	Sequence 125, App
	163	18.4	59.4	246144	6	US-10-085-117-226	Sequence 226, App	c 236	18.2	58.7	756	5	US-10-175-737-125	Sequence 125, App
	164	18.4	59.4	3011208	7	US-10-398-221-2058	Sequence 2058, Ap	c 237	18.2	58.7	756	5	US-10-175-738-125	Sequence 125, App
	165	18.2	58.7	160	8	US-10-425-115-5845	Sequence 5845, Ap	c 238	18.2	58.7	756	5	US-10-176-482-125	Sequence 125, App
	166	18.2	58.7	235	3	US-09-864-761-31257	Sequence 31257, A	c 239	18.2	58.7	756	5	US-10-176-482-125	Sequence 125, App
	167	18.2	58.7	306	3	US-09-864-761-28988	Sequence 28988, A	c 240	18.2	58.7	756	5	US-10-176-482-125	Sequence 125, App
	168	18.2	58.7	320	4	US-09-925-065A-651506	Sequence 651506, A	c 241	18.2	58.7	756	5	US-10-176-482-125	Sequence 125, App
	169	18.2	58.7	320	4	US-09-925-065A-651507	Sequence 651507, A	c 242	18.2	58.7	756	5	US-10-176-913-125	Sequence 125, App

535	18.2	58.7	756	5	US-10-192-012-125	Sequence 125, App	608	18.2	58.7	756	5	US-10-207-919-125	Sequence 125, App
536	18.2	58.7	756	5	US-10-192-014-125	Sequence 125, App	609	18.2	58.7	756	5	US-10-207-920-125	Sequence 125, App
537	18.2	58.7	756	5	US-10-192-016-125	Sequence 125, App	610	18.2	58.7	756	5	US-10-207-925-125	Sequence 125, App
538	18.2	58.7	756	5	US-10-194-362-125	Sequence 125, App	611	18.2	58.7	756	5	US-10-208-021-125	Sequence 125, App
539	18.2	58.7	756	5	US-10-194-364-125	Sequence 125, App	612	18.2	58.7	756	5	US-10-208-022-125	Sequence 125, App
540	18.2	58.7	756	5	US-10-194-395-125	Sequence 125, App	613	18.2	58.7	756	5	US-10-208-023-125	Sequence 125, App
541	18.2	58.7	756	5	US-10-194-424-125	Sequence 125, App	614	18.2	58.7	756	5	US-10-208-026-125	Sequence 125, App
542	18.2	58.7	756	5	US-10-194-458-125	Sequence 125, App	615	18.2	58.7	756	5	US-10-208-029-125	Sequence 125, App
543	18.2	58.7	756	5	US-10-194-488-125	Sequence 125, App	616	18.2	58.7	756	5	US-10-208-030-125	Sequence 125, App
544	18.2	58.7	756	5	US-10-195-886-125	Sequence 125, App	617	18.2	58.7	756	5	US-10-015-393A-7	Sequence 7, Appli
545	18.2	58.7	756	5	US-10-195-891-125	Sequence 125, App	618	18.2	58.7	756	5	US-10-232-232-125	Sequence 125, App
546	18.2	58.7	756	5	US-10-195-891-125	Sequence 125, App	619	18.2	58.7	756	5	US-10-195-898-125	Sequence 125, App
547	18.2	58.7	756	5	US-10-196-746-125	Sequence 125, App	620	18.2	58.7	756	5	US-10-196-759-125	Sequence 125, App
548	18.2	58.7	756	5	US-10-196-752-125	Sequence 125, App	621	18.2	58.7	756	5	US-10-015-869A-7	Sequence 7, Appli
549	18.2	58.7	756	5	US-10-196-753-125	Sequence 125, App	622	18.2	58.7	756	5	US-10-173-693-125	Sequence 125, App
550	18.2	58.7	756	5	US-10-197-692-125	Sequence 125, App	623	18.2	58.7	756	5	US-10-174-578-125	Sequence 125, App
551	18.2	58.7	756	5	US-10-197-692-125	Sequence 125, App	624	18.2	58.7	756	5	US-10-175-741-125	Sequence 125, App
552	18.2	58.7	756	5	US-10-197-693-125	Sequence 125, App	625	18.2	58.7	756	5	US-10-175-750-125	Sequence 125, App
553	18.2	58.7	756	5	US-10-197-696-125	Sequence 125, App	626	18.2	58.7	756	5	US-10-176-986-125	Sequence 125, App
554	18.2	58.7	756	5	US-10-197-698-125	Sequence 125, App	627	18.2	58.7	756	5	US-10-184-641-125	Sequence 125, App
555	18.2	58.7	756	5	US-10-197-703-125	Sequence 125, App	628	18.2	58.7	756	5	US-10-187-888-125	Sequence 125, App
556	18.2	58.7	756	5	US-10-197-711-125	Sequence 125, App	629	18.2	58.7	756	5	US-10-194-360-125	Sequence 125, App
557	18.2	58.7	756	5	US-10-198-757-125	Sequence 125, App	630	18.2	58.7	756	5	US-10-194-365-125	Sequence 125, App
558	18.2	58.7	756	5	US-10-198-761-125	Sequence 125, App	631	18.2	58.7	756	5	US-10-195-895-125	Sequence 125, App
559	18.2	58.7	756	5	US-10-198-762-125	Sequence 125, App	632	18.2	58.7	756	5	US-10-199-302-125	Sequence 125, App
560	18.2	58.7	756	5	US-10-198-763-125	Sequence 125, App	633	18.2	58.7	756	5	US-10-201-323-125	Sequence 125, App
561	18.2	58.7	756	5	US-10-198-767-125	Sequence 125, App	634	18.2	58.7	756	5	US-10-205-510-125	Sequence 125, App
562	18.2	58.7	756	5	US-10-199-301-125	Sequence 125, App	635	18.2	58.7	756	5	US-10-205-891-125	Sequence 125, App
563	18.2	58.7	756	5	US-10-199-307-125	Sequence 125, App	636	18.2	58.7	756	5	US-10-206-917-125	Sequence 125, App
564	18.2	58.7	756	5	US-10-199-312-125	Sequence 125, App	637	18.2	58.7	756	5	US-10-207-923-125	Sequence 125, App
565	18.2	58.7	756	5	US-10-199-315-125	Sequence 125, App	638	18.2	58.7	756	5	US-10-207-924-125	Sequence 125, App
566	18.2	58.7	756	5	US-10-199-316-125	Sequence 125, App	639	18.2	58.7	756	5	US-10-208-028-125	Sequence 125, App
567	18.2	58.7	756	5	US-10-199-457-125	Sequence 125, App	640	18.2	58.7	756	5	US-10-012-121A-7	Sequence 7, Appli
568	18.2	58.7	756	5	US-10-199-459-125	Sequence 125, App	641	18.2	58.7	756	5	US-10-205-904-125	Sequence 125, App
569	18.2	58.7	756	5	US-10-199-460-125	Sequence 125, App	642	18.2	58.7	756	5	US-10-175-753-125	Sequence 125, App
570	18.2	58.7	756	5	US-10-199-461-125	Sequence 125, App	643	18.2	58.7	756	5	US-10-180-553-125	Sequence 125, App
571	18.2	58.7	756	5	US-10-199-667-125	Sequence 125, App	644	18.2	58.7	756	5	US-10-201-327-125	Sequence 125, App
572	18.2	58.7	756	5	US-10-199-673-125	Sequence 125, App	645	18.2	58.7	756	5	US-10-121-062-125	Sequence 125, App
573	18.2	58.7	756	5	US-10-201-321-125	Sequence 125, App	646	18.2	58.7	756	5	US-10-006-116A-7	Sequence 7, Appli
574	18.2	58.7	756	5	US-10-201-322-125	Sequence 125, App	647	18.2	58.7	756	5	US-10-006-117A-7	Sequence 7, Appli
575	18.2	58.7	756	5	US-10-201-326-125	Sequence 125, App	648	18.2	58.7	756	5	US-10-017-527A-7	Sequence 7, Appli
576	18.2	58.7	756	5	US-10-201-532-125	Sequence 125, App	649	18.2	58.7	756	5	US-10-183-003-125	Sequence 125, App
577	18.2	58.7	756	5	US-10-201-533-125	Sequence 125, App	650	18.2	58.7	756	5	US-10-183-016-125	Sequence 125, App
578	18.2	58.7	756	5	US-10-201-535-125	Sequence 125, App	651	18.2	58.7	756	5	US-10-173-696-125	Sequence 125, App
579	18.2	58.7	756	5	US-10-201-769-125	Sequence 125, App	652	18.2	58.7	756	5	US-10-013-913A-7	Sequence 7, Appli
580	18.2	58.7	756	5	US-10-201-771-125	Sequence 125, App	653	18.2	58.7	756	5	US-10-125-923A-125	Sequence 125, App
581	18.2	58.7	756	5	US-10-201-854-125	Sequence 125, App	654	18.2	58.7	756	5	US-10-176-491-125	Sequence 125, App
582	18.2	58.7	756	5	US-10-202-410-125	Sequence 125, App	655	18.2	58.7	756	5	US-10-176-979-125	Sequence 125, App
583	18.2	58.7	756	5	US-10-202-473-125	Sequence 125, App	656	18.2	58.7	756	5	US-10-187-592-125	Sequence 125, App
584	18.2	58.7	756	5	US-10-202-474-125	Sequence 125, App	657	18.2	58.7	756	5	US-10-007-194A-7	Sequence 7, Appli
585	18.2	58.7	756	5	US-10-205-503-125	Sequence 125, App	658	18.2	58.7	756	5	US-10-197-691-125	Sequence 125, App
586	18.2	58.7	756	5	US-10-205-512-125	Sequence 125, App	659	18.2	58.7	756	5	US-10-198-771-125	Sequence 125, App
587	18.2	58.7	756	5	US-10-205-892-125	Sequence 125, App	660	18.2	58.7	756	5	US-10-013-430A-7	Sequence 7, Appli
588	18.2	58.7	756	5	US-10-205-894-125	Sequence 125, App	661	18.2	58.7	756	5	US-10-174-578A-125	Sequence 125, App
589	18.2	58.7	756	5	US-10-205-896-125	Sequence 125, App	662	18.2	58.7	756	5	US-10-179-520-125	Sequence 125, App
590	18.2	58.7	756	5	US-10-205-898-125	Sequence 125, App	663	18.2	58.7	756	5	US-10-201-325-125	Sequence 125, App
591	18.2	58.7	756	5	US-10-205-901-125	Sequence 125, App	664	18.2	58.7	756	5	US-10-202-941-125	Sequence 125, App
592	18.2	58.7	756	5	US-10-205-903-125	Sequence 125, App	665	18.2	58.7	756	5	US-10-205-910-125	Sequence 125, App
593	18.2	58.7	756	5	US-10-206-909-125	Sequence 125, App	666	18.2	58.7	756	5	US-10-011-671A-7	Sequence 7, Appli
594	18.2	58.7	756	5	US-10-206-910-125	Sequence 125, App	667	18.2	58.7	756	5	US-10-012-755A-7	Sequence 7, Appli
595	18.2	58.7	756	5	US-10-206-911-125	Sequence 125, App	668	18.2	58.7	756	5	US-10-015-386A-7	Sequence 7, Appli
596	18.2	58.7	756	5	US-10-206-912-125	Sequence 125, App	669	18.2	58.7	756	5	US-10-179-526-125	Sequence 125, App
597	18.2	58.7	756	5	US-10-206-913-125	Sequence 125, App	670	18.2	58.7	756	5	US-10-173-701-125	Sequence 125, App
598	18.2	58.7	756	5	US-10-206-914-125	Sequence 125, App	671	18.2	58.7	756	5	US-10-179-511-125	Sequence 125, App
599	18.2	58.7	756	5	US-10-206-920-125	Sequence 125, App	672	18.2	58.7	756	5	US-10-179-518-125	Sequence 125, App
600	18.2	58.7	756	5	US-10-206-921-125	Sequence 125, App	673	18.2	58.7	756	5	US-10-183-018-125	Sequence 125, App
601	18.2	58.7	756	5	US-10-206-923-125	Sequence 125, App	674	18.2	58.7	756	5	US-10-184-624-125	Sequence 125, App
602	18.2	58.7	756	5	US-10-206-925-125	Sequence 125, App	675	18.2	58.7	756	5	US-10-184-657-125	Sequence 125, App
603	18.2	58.7	756	5	US-10-206-926-125	Sequence 125, App	676	18.2	58.7	756	5	US-10-197-701-125	Sequence 125, App
604	18.2	58.7	756	5	US-10-206-927-125	Sequence 125, App	677	18.2	58.7	756	5	US-10-197-706-125	Sequence 125, App
605	18.2	58.7	756	5	US-10-207-916-125	Sequence 125, App	678	18.2	58.7	756	5	US-10-201-857-125	Sequence 125, App
606	18.2	58.7	756	5	US-10-207-917-125	Sequence 125, App	679	18.2	58.7	756	5	US-10-202-413-125	Sequence 125, App
607	18.2	58.7	756	5	US-10-207-918-125	Sequence 125, App	680	18.2	58.7	756	5	US-10-202-938-125	Sequence 125, App

681	18.2	58.7	756	5	US-10-202-940-125	Sequence 125, App	754	18.2	58.7	756	6	US-10-176-983-125	Sequence 125, App
682	18.2	58.7	756	5	US-10-205-508-125	Sequence 125, App	755	18.2	58.7	756	6	US-10-176-988-125	Sequence 125, App
683	18.2	58.7	756	5	US-10-205-905-125	Sequence 125, App	756	18.2	58.7	756	6	US-10-179-517-125	Sequence 125, App
684	18.2	58.7	756	5	US-10-206-918-125	Sequence 125, App	757	18.2	58.7	756	6	US-10-179-521-125	Sequence 125, App
685	18.2	58.7	756	5	US-10-208-025-125	Sequence 125, App	758	18.2	58.7	756	6	US-10-017-867A-7	Sequence 7, Appli
686	18.2	58.7	756	5	US-10-011-692A-7	Sequence 7, Appli	759	18.2	58.7	756	6	US-10-012-064A-7	Sequence 7, Appli
687	18.2	58.7	756	5	US-10-006-768A-7	Sequence 7, Appli	760	18.2	58.7	756	6	US-10-202-475-125	Sequence 125, App
688	18.2	58.7	756	5	US-10-017-610A-7	Sequence 7, Appli	761	18.2	58.7	756	6	US-10-013-909A-7	Sequence 7, Appli
689	18.2	58.7	756	5	US-10-198-760-125	Sequence 125, App	762	18.2	58.7	756	6	US-10-015-671A-7	Sequence 7, Appli
690	18.2	58.7	756	5	US-10-201-772-125	Sequence 125, App	763	18.2	58.7	756	6	US-10-015-610A-7	Sequence 7, Appli
691	18.2	58.7	756	5	US-10-006-063A-7	Sequence 7, Appli	764	18.2	58.7	756	6	US-10-012-137A-7	Sequence 7, Appli
692	18.2	58.7	756	6	US-10-020-063A-7	Sequence 7, Appli	765	18.2	58.7	756	6	US-10-012-752A-7	Sequence 7, Appli
693	18.2	58.7	756	6	US-10-184-613-125	Sequence 125, App	766	18.2	58.7	756	6	US-10-012-754A-7	Sequence 7, Appli
694	18.2	58.7	756	6	US-10-187-739-125	Sequence 125, App	767	18.2	58.7	756	6	US-10-013-910A-7	Sequence 7, Appli
695	18.2	58.7	756	6	US-10-206-907-125	Sequence 125, App	768	18.2	58.7	756	6	US-10-013-911A-7	Sequence 7, Appli
696	18.2	58.7	756	6	US-10-015-391A-7	Sequence 7, Appli	769	18.2	58.7	756	6	US-10-013-912A-7	Sequence 7, Appli
697	18.2	58.7	756	6	US-10-183-009-125	Sequence 125, App	770	18.2	58.7	756	6	US-10-015-653A-7	Sequence 7, Appli
698	18.2	58.7	756	6	US-10-187-755-125	Sequence 125, App	771	18.2	58.7	756	6	US-10-012-101B-7	Sequence 7, Appli
699	18.2	58.7	756	6	US-10-017-407A-7	Sequence 7, Appli	772	18.2	58.7	756	6	US-10-015-480A-7	Sequence 7, Appli
700	18.2	58.7	756	6	US-10-011-833A-7	Sequence 7, Appli	773	18.2	58.7	756	6	US-10-015-715A-7	Sequence 7, Appli
701	18.2	58.7	756	6	US-10-006-041A-7	Sequence 7, Appli	774	18.2	58.7	756	6	US-10-012-237A-7	Sequence 7, Appli
702	18.2	58.7	756	6	US-10-015-822A-7	Sequence 7, Appli	775	18.2	58.7	756	6	US-10-013-906A-7	Sequence 7, Appli
703	18.2	58.7	756	6	US-10-015-822A-7	Sequence 7, Appli	776	18.2	58.7	756	6	US-10-015-388A-7	Sequence 7, Appli
704	18.2	58.7	756	6	US-10-006-130A-7	Sequence 7, Appli	777	18.2	58.7	756	6	US-10-012-753A-7	Sequence 7, Appli
705	18.2	58.7	756	6	US-10-199-672-125	Sequence 125, App	778	18.2	58.7	756	6	US-10-015-385A-7	Sequence 7, Appli
706	18.2	58.7	756	6	US-10-006-172A-7	Sequence 7, Appli	779	18.2	58.7	756	6	US-10-007-236A-7	Sequence 7, Appli
707	18.2	58.7	756	6	US-10-187-749-125	Sequence 125, App	780	18.2	58.7	756	6	US-10-015-389A-7	Sequence 7, Appli
708	18.2	58.7	756	6	US-10-194-457-125	Sequence 125, App	781	18.2	58.7	756	6	US-10-015-519A-7	Sequence 7, Appli
709	18.2	58.7	756	6	US-10-184-642-125	Sequence 125, App	782	18.2	58.7	756	6	US-10-013-915A-7	Sequence 7, Appli
710	18.2	58.7	756	6	US-10-196-747-125	Sequence 125, App	783	18.2	58.7	756	6	US-10-015-394A-7	Sequence 7, Appli
711	18.2	58.7	756	6	US-10-017-253A-7	Sequence 7, Appli	784	18.2	58.7	756	6	US-10-195-887-125	Sequence 125, App
712	18.2	58.7	756	6	US-10-173-689-125	Sequence 125, App	785	18.2	58.7	756	6	US-10-195-893-125	Sequence 125, App
713	18.2	58.7	756	6	US-10-173-690-125	Sequence 125, App	786	18.2	58.7	756	6	US-10-179-509-125	Sequence 125, App
714	18.2	58.7	756	6	US-10-173-691-125	Sequence 125, App	787	18.2	58.7	756	6	US-10-194-486-125	Sequence 125, App
715	18.2	58.7	756	6	US-10-173-692-125	Sequence 125, App	788	18.2	58.7	756	6	US-10-195-900-125	Sequence 125, App
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ALIGNMENTS

RESULT 1
US-10-085-612-4
; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
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; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR FILING DATE: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR FILING DATE: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4
Query Match 100.0%; Score 31; DB 5; Length 1254;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGATGT 31
|||||
Db 690 GGGGTCGTCTGGCTGGGCTTGCAAGGATGT 720
RESULT 2
US-09-925-065A-675137
; Sequence 675137, Application US/09925065A

; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 675137
; LENGTH: 2214
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-675137
Query Match 94.8%; Score 29.4; DB 4; Length 2214;
Best Local Similarity 96.8%; Pred. No. 0.01;
Matches 30; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGATGT 31
|||||
Db 652 GGGGTCGTCTGGCTGGGCTTGCAAGGATGT 682
RESULT 3
US-10-484-577-662
; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 662
; LENGTH: 96960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-662
Query Match 89.7%; Score 27.8; DB 8; Length 96960;
Best Local Similarity 93.5%; Pred. No. 0.045;
Matches 29; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 GGGGTCGTCTGGCTGGGCTTGCAAGGATGT 31
|||||
Db 93018 GGGGTCGTCTGGCTGGGCTTGGAAGGATGT 93048
RESULT 4
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:

```
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 660
; LENGTH: 177531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-660

Query Match      88.4%; Score 27.4; DB 8; Length 177531;
Best Local Similarity 96.6%; Pred. No. 0.065;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGGCTGGCTTGCAGGAT 29
Db 15423 GGGCTCTGCTGGCTGGCTGGCTTGCAGGAT 15451

RESULT 5
US-09-957-997-4
; Sequence 4, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-4

Query Match      76.1%; Score 23.6; DB 3; Length 1012;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGTCTCTGCTGGCTGGCTTGCAGGATGT 31
Db 591 GGGTCTCTGCTGGCTGGCTTGCAGGATGT 620

RESULT 6
US-09-943-115A-1
; Sequence 1, Application US/09943115A
; Publication No. US20030017469A1
; GENERAL INFORMATION:
; APPLICANT: SEQUENOM, Inc.
; APPLICANT: Risinger, Carl
; APPLICANT: Andersson, Maria
; APPLICANT: Lewander, Tommy
; APPLICANT: Olafsson, Erik
; TITLE OF INVENTION: DETECTION OF CYP3A4 AND CYP2C9
; TITLE OF INVENTION: POLYMORPHISMS
```

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; FILE REFERENCE: 52459-20021.00
; CURRENT APPLICATION NUMBER: US/09/943,115A
; CURRENT FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: UK 0021286.0
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-943-115A-1

Query Match      76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGTCTGCTGCTGGCTGGCTTGCAGGATGT 31
Db 668 GGGTCTGCTGCTGGCTGGCTTGCAGGATGT 697

RESULT 7
US-10-146-575-3
; Sequence 3, Application US/10146575
; Publication No. US20030059800A1
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/10/146,575
; CURRENT FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US/09/144,367
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-10-146-575-3

Query Match      76.1%; Score 23.6; DB 5; Length 1345;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGTCTGCTGCTGGCTGGCTTGCAGGATGT 31
Db 668 GGGTCTGCTGCTGGCTGGCTTGCAGGATGT 697

RESULT 8
US-10-085-612-3
; Sequence 3, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
```

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; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-3

```

```
Query Match      76.1%; Score 23.6; DB 5; Length 1345;
Best Local Similarity 86.7%; Pred. NO. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0
```

Qy 2 GGGTCTGTCTGGCTGGGCTTGCAAGGATGT 31
|||
pb 668 GGCTCTGTCTGTCTGGGTTTGAAGGATGT 697

```

RESULT 9
US-09-957-997-1
; Sequence 1, Application US/09957997
; Patent NO. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Berkenstam, Grant
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: fastseq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-1

```

Query Match 76.1%; Score 23.6; DB 3; Length 11186;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26: Conservative 0; Mismatches 4; Indels 0;

QY 2 GGCTCTGCTGGCTGGGCTTGCAAGGATGT 31
|||
Db 10708 GGCTCTGCTGGCTGGGCTTGAAAGGATGT 10737

```

RESULT 10
US-10-415-607-4
; Sequence 4, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE OF INVENTION: A-72251/REF
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-4

```

Query Match 76.1%; Score 23.6; DB 9; Length 11186;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26; Conservative 0; Mismatches 4; Indels 0;

Qy

2 GGCTCTGTCGGCTGGCGTGC AAGGATGT 31
||| ||| ||| ||| ||| ||| ||| ||| |||
Dβ

10708 GGCTCTGTCGGCTGGGTATGA AAGGATGT 10737

```

RESULT 11
US-10-415-607-1
; Sequence 1, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; FILE OF INVENTION: P450 GENE REGU
; FILE REFERENCE: A-72251/RET
; CURRENT APPLICATION NUMBER: US/10/
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 1
; LENGTH: 12983
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-1

```

Query Match 76.1%; Score 23.6; DB 9; Length 12983;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26; Conservative 0; Mismatches 4; Indels 0;

Qy 2 GGTCTGTCTGGCTGGCTGCAAGATGT 31
|||
Db 12491 GGCTCTGTCTGTCTGGCTTGGAAAGATGT 12520

```

RESULT 12
US-10-121-960C-14
; Sequence 14, Application US/10121960C
; Publication NO. US20030145341A1
;
GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMA, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAWOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; TITLE OF INVENTION: CYTOCHROME EXPRESSION
; FILE REFERENCE: 9400-0014 / PXE-014.US
; CURRENT APPLICATION NUMBER: US/10121,960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 13035
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: human CYP1A1
US-10-121-960C-14

```

Query Match	76.1%;	Score 23.6;	DB 6;	Length 13035;
Best Local Similarity	86.7%;	Pred. No. 2.8;		
Matches 26:	Conservative	0;	Mismatches 4;	Indels 0;
	Gaps	0;		

QY 2 GGGTCTGTCTGGCTGGGCTTGCAAGGATGT 31

Db 12493 GGCTCTGCTGCTGCTGGGTTTGGGAAGGATGT 12522

RESULT 13
US-10-121-960C-17
; Sequence 17, Application US/10121960C
; Publication No. US20030145341A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMA, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAMOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; TITLE OF INVENTION: CYTOCHROME EXPRESSION
; FILE REFERENCE: 9400-0014 / PXE-014.US
; CURRENT APPLICATION NUMBER: US/10/121,960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 15185
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CYP3A4-luc transgene
US-10-121-960C-17

Query Match 76.1%; Score 23.6; DB 6; Length 15185;
Best Local Similarity 86.7%; Pred. No. 2.9;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GGCTCTGCTGCTGCTGGGTTTGGGAAGGATGT 31
Db 12493 GGCTCTGCTGCTGCTGGGTTTGGGAAGGATGT 12522

RESULT 14
US-10-972-079-15888/c
; Sequence 15888, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15888
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894222767_3
US-10-972-079-15888

Query Match 67.7%; Score 21; DB 9; Length 600;
Best Local Similarity 82.8%; Pred. No. 38;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGCTCTGCTGCTGCTGGGTTTGGGAAGGATGT 31
Db 547 GGCTGCTGCTGCTGCTGGGTTTGGGAAGGATTT 519

RESULT 15
US-09-925-065A-884295
; Sequence 884295, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 884295
; LENGTH: 660
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-884295

Query Match 67.7%; Score 21; DB 4; Length 660;
Best Local Similarity 82.8%; Pred. No. 38;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 GGCTCTGCTGCTGCTGGGTTTGGGAAGGATG 30
Db 346 GGTTCTGCTGCTGCTGGGTTTAGCAAGGATG 374

RESULT 16
US-09-925-065A-910428
; Sequence 910428, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 910428
; LENGTH: 660
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-910428

Query Match 67.7%; Score 21; DB 4; Length 660;
Best Local Similarity 82.8%; Pred. No. 38;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Method and Nucleic Acids for Analysing the Methylation of
; FILE REFERENCE: 5013.1011
; CURRENT APPLICATION NUMBER: US/10/257,166
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: PCT/EP01/07470
; DE 10032529.7
; DE 10043826.1
; PRIOR FILING DATE: 2001-06-29
; 2000-06-30
; 2000-09-01
; NUMBER OF SEQ ID NOS: 178
; SEQ ID NO 149
; LENGTH: 8776
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-257-166-149

Query Match 67.7%; Score 21; DB 7; Length 8776;
Best Local Similarity 82.8%; Pred. No. 36;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGGGCTTGCAGGAT 29
|||||
Db 4598 GGGGTTTGTGTGGTTGGGTTTGAAGGAT 4626

RESULT 21
US-09-925-065A-326101/c
; Sequence 326101, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 326101
; LENGTH: 638
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-326101

Query Match 66.5%; Score 20.6; DB 4; Length 638;
Best Local Similarity 85.2%; Pred. No. 56;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 TCTGTCTGCTGGCTTGCAGGATGT 31
|||||
Db 575 TTTGGCTGGCTGGCTTCCAGGATGT 549

RESULT 22
US-10-972-079-41080/c
; Sequence 41080, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single

; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEEP
; TITLE OF INVENTION: LIVESTOCK
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41080
; LENGTH: 599
; TYPE: DNA
; ORGANISM: Chicken 19866894276366_1
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(156)
; OTHER INFORMATION: n is any nucleotide
US-10-972-079-41080

Query Match 65.8%; Score 20.4; DB 9; Length 599;
Best Local Similarity 80.0%; Pred. No. 69;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGGGCTTGCAGGATG 30
|||||
Db 521 GGGGCTCTGCTCTCTGGCTGGCCAGGATG 492

RESULT 23
US-10-425-115-106659
; Sequence 106659, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 106659
; LENGTH: 635
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_28772C.1
US-10-425-115-106659

Query Match 65.8%; Score 20.4; DB 8; Length 635;
Best Local Similarity 80.0%; Pred. No. 69;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGGGCTTGCAGGATG 30
|||||
Db 397 GGAGTCGGCTGGATGGGCTTCCAGGACG 426

RESULT 24
US-09-925-065A-550366
; Sequence 550366, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single

; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome

; FILE REFERENCE: 108827.135

; CURRENT APPLICATION NUMBER: US/09/925,065A

; CURRENT FILING DATE: 2001-08-08

; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24

; PRIOR APPLICATION NUMBER: US 60/252,147

; PRIOR FILING DATE: 2000-11-20

; PRIOR APPLICATION NUMBER: US 60/250,092

; PRIOR FILING DATE: 2000-11-30

; PRIOR APPLICATION NUMBER: US 60/261,766

; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US 60/289,846

; PRIOR FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 550366

; LENGTH: 1639

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-925-065A-550366

Query Match 65.8%; Score 20.4; DB 4; Length 1639;

Best Local Similarity 80.0%; Pred. No. 67;

Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTGCTGGCTGGCTTGCAGGATG 30

Db 149 GGGGCTGCCAGGCTGGGCTGAGAGGATG 178

RESULT 25

US-10-425-115-53309

; Sequence 53309, Application US/10425115

; Publication No. US20040214272A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53222)B

; CURRENT APPLICATION NUMBER: US/10/425,115

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 369326

; SEQ ID NO 53309

; LENGTH: 442

; TYPE: DNA

; ORGANISM: Zea mays

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(442)

; OTHER INFORMATION: unsure at all n locations

; FEATURE:

; OTHER INFORMATION: Clone ID: MRT4577_14861C.1

US-10-425-115-53309

Query Match

Best Local Similarity 64.5%; Score 20; DB 8; Length 442;

Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 2 GGGTCTCTGGCTGGCTTGCAGGATG 30

Db 325 GTGTCTGTAGCTTGCCTTGAAGGNTG 353

RESULT 26

US-10-764-420-1618/C

; Sequence 1618, Application US/10764420

; Publication No. US20050084872A1

; GENERAL INFORMATION:

; APPLICANT: Lum, Pek Yee

; APPLICANT: Tan, Yejun

; APPLICANT: Dai, Hongyue

; TITLE OF INVENTION: Methods For Determining Whether An Agent

; TITLE OF INVENTION: Possesses A Defined Biological Activity

; FILE REFERENCE: ROSA122057

; CURRENT APPLICATION NUMBER: US/10/764,420

; CURRENT FILING DATE: 2004-01-23

; PRIOR APPLICATION NUMBER: US 60/442,797

; PRIOR FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: US 60/474,413

; PRIOR FILING DATE: 2003-05-30

; NUMBER OF SEQ ID NOS: 3683

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1618

; LENGTH: 1174

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-764-420-1618

Query Match 64.5%; Score 20; DB 9; Length 1174;

Best Local Similarity 82.1%; Pred. No. 1e+02;

Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTGCTGGCTGGCTTGCAGGA 28

Db 910 GGGGCTGCTGCTGGCTGGCATGCAGCA 883

RESULT 27

US-10-779-543-3046

; Sequence 3046, Application US/10779543

; Publication No. US20050227917A1

; GENERAL INFORMATION:

; APPLICANT: Williams et al

; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED

; FILE REFERENCE: 2300-21302

; CURRENT APPLICATION NUMBER: US/10/779,543

; CURRENT FILING DATE: 2004-02-12

; PRIOR APPLICATION NUMBER: 10/076,555

; PRIOR FILING DATE: 2002-02-15

; PRIOR APPLICATION NUMBER: 09/217,471

; PRIOR FILING DATE: 1998-12-21

; PRIOR APPLICATION NUMBER: 60/068,755

; PRIOR FILING DATE: 1997-12-23

; PRIOR APPLICATION NUMBER: 60/080,664

; PRIOR FILING DATE: 1998-04-03

; PRIOR APPLICATION NUMBER: 60/105,234

; PRIOR FILING DATE: 1998-10-21

; PRIOR APPLICATION NUMBER: 09/297,648

; PRIOR FILING DATE: 2000-04-10

; PRIOR APPLICATION NUMBER: PCT/US99/01619

; PRIOR FILING DATE: 1999-01-28

; PRIOR APPLICATION NUMBER: 60/072,910

; PRIOR FILING DATE: 1998-01-28

; PRIOR APPLICATION NUMBER: 60/075,954

; PRIOR FILING DATE: 1998-02-24

; PRIOR APPLICATION NUMBER: 60/080,114

; PRIOR FILING DATE: 1998-03-31

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 23767

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3046

; LENGTH: 300

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-779-543-3046

Query Match

Best Local Similarity 63.9%; Score 19.8; DB 9; Length 300;

Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GGGGCTGCTGCTGGCTGGCTTGCAGGATGT 31

; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 73538
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894354785_4
US-10-972-079-73538

Query Match 62.6%; Score 19.4; DB 9; Length 600;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGGCTTGAAGGAT 29
|||||
Db 200 GGGCTCTGTCAAGCTGCGGCTCCAAGGAT 228

RESULT 36

US-10-972-079-73539
; Sequence 73539, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 73539
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894354785_5
US-10-972-079-73539

Query Match 62.6%; Score 19.4; DB 9; Length 600;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGGCTTGAAGGAT 29
|||||
Db 186 GGGCTCTGTCAAGCTGCGGCTCCAAGGAT 214

RESULT 37

US-10-972-079-73540
; Sequence 73540, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631

; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 73540
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894354785_6
US-10-972-079-73540

Query Match 62.6%; Score 19.4; DB 9; Length 600;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGGCTTGAAGGAT 29
|||||
Db 170 GGGCTCTGTCAAGCTGCGGCTCCAAGGAT 198

RESULT 38

US-10-972-079-73541
; Sequence 73541, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 73541
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894354785_7
US-10-972-079-73541

Query Match 62.6%; Score 19.4; DB 9; Length 600;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGCTGGCTGGCTTGAAGGAT 29
|||||
Db 15 GGGCTCTGTCAAGCTGCGGCTCCAAGGAT 43

RESULT 39

US-10-027-632-9215/c
; Sequence 9215, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358

```
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9215
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9215
```

```
Query Match          62.6%; Score 19.4; DB 5; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGTCTGTCTGTCTTTCGACTGAT 700
```

```
RESULT 40
US-10-027-632-9216/c
; Sequence 9216, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9216
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9216
```

```
Query Match          62.6%; Score 19.4; DB 5; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGTCTGTCTGTCTTTCGACTGAT 700
```

```
RESULT 41
US-10-027-632-9215/c
; Sequence 9215, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
```

```
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9215
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9215
```

```
Query Match          62.6%; Score 19.4; DB 6; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGTCTGTCTGTCTTTCGACTGAT 700
```

```
RESULT 42
US-10-027-632-9216/c
; Sequence 9216, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9216
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9216
```

```
Query Match          62.6%; Score 19.4; DB 6; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGTCTGTCTGTCTTTCGACTGAT 700
```

```
RESULT 43
US-10-027-632-9700
; Sequence 9700, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9700
; LENGTH: 893
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9700

Query Match          62.6%; Score 19.4; DB 5; Length 893;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGCTGGCTTGCAGGAT 29
Db      ||||| ||||| ||||| ||||| |||||
347 GTGGTCTGTCTGTCTGTCTTCTTGCACGTGAT 375

RESULT 44
US-10-027-632-9700
; Sequence 9700, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9700
; LENGTH: 893
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9700

Query Match          62.6%; Score 19.4; DB 5; Length 893;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGCTGGCTTGCAGGAT 29
Db      ||||| ||||| ||||| ||||| |||||
347 GTGGTCTGTCTGTCTGTCTTCTTGCACGTGAT 375
```

```
US-10-027-632-9700

Query Match          62.6%; Score 19.4; DB 6; Length 893;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGCTGGCTTGCAGGAT 29
Db      ||||| ||||| ||||| ||||| |||||
347 GTGGTCTGTCTGTCTGTCTTCTTGCACGTGAT 375

RESULT 45
US-10-027-632-124022/c
; Sequence 124022, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124022
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-124022

Query Match          62.6%; Score 19.4; DB 5; Length 1245;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGCTGGCTTGCAGGATG 30
Db      ||||| ||||| ||||| ||||| |||||
184 GGGTCTGTGTCATGTGCTGGCAATGATG 156

RESULT 46
US-10-027-632-124022/c
; Sequence 124022, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
```

```

; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124022
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-124022

Query Match          62.6%; Score 19.4; DB 6; Length 1245;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGCTCTGCTGGCTGGCTGCAAGGATG 30
Db 184 GGCTCTGCTGGCTGGCTGCAAGGATG 156

RESULT 47
US-10-450-763-3430/c
; Sequence 3430, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 3430
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (1141)..(908)
; OTHER INFORMATION: 41% homologous to Oryza sativa DNA binding protein, accession
; OTHER INFORMATION: number X88799, Smith-Waterman Score=115.
US-10-450-763-3430

Query Match          62.6%; Score 19.4; DB 9; Length 1471;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGCTCTGCTGGCTGGCTGCAAGGATG 31
Db 423 GGCTCTGCTGGCTGGCTGCAAGGATG 395

RESULT 48
US-10-425-114-34692
; Sequence 34692, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

```

```

; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 34692
; LENGTH: 1984
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLMO17299H10_FLI
US-10-425-114-34692

Query Match          62.6%; Score 19.4; DB 7; Length 1984;
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RESULT 49
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; Sequence 83173, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 83173
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_17586C.1
US-10-425-115-83173

Query Match          62.6%; Score 19.4; DB 8; Length 2031;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1874 GGCTCTGCTGGCTGGCTGCAAGGATG 1902

RESULT 50
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; Sequence 1, Application US/10461862
; Publication No. US20050090434A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 52945201800
; CURRENT APPLICATION NUMBER: US/10/461,862
; CURRENT FILING DATE: 2003-06-13
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: FastSeq for Windows Version 4.0
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; LENGTH: 608916
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(608916)

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; OTHER INFORMATION: n = A,T,C or G
US-10-461-862-1

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Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 134402 GAGCTGTCTGGCTGAGCTGCAGGGCTG 134430

Search completed: January 11, 2006, 04:38:29
Job time : 628.071 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 629.707 Seconds
(without alignments)
39.844 Million cell updates/sec

Title: US-09-869-169C-19_COPY_850_880

Perfect score: 31

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	18.4	59.4	1572	6	US-10-750-623-32785
7	18.4	59.4	195235	6	US-10-995-561-13495
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Sequence 32129, A
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Sequence 4717, Ap
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103	16.8	54.2	481	7	US-11-128-061-1859	Sequence 1859, Ap	c 176	16.4	52.9	201	6	US-10-995-561-72600	Sequence 72600, A
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c 107	16.8	54.2	958	6	US-10-750-623-48059	Sequence 48059, A	c 180	16.4	52.9	501	6	US-10-623-155-202	Sequence 202, App
c 108	16.8	54.2	1109	6	US-10-750-623-52807	Sequence 52807, A	c 181	16.4	52.9	579	7	US-11-128-061-1635	Sequence 1635, Ap
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c 113	16.8	54.2	2765	7	US-11-136-527-126	Sequence 126, App	c 186	16.4	52.9	600	6	US-10-750-623-3147	Sequence 3147, Ap
c 114	16.8	54.2	3092	6	US-10-750-185-57967	Sequence 57967, A	c 187	16.4	52.9	731	6	US-10-750-185-58373	Sequence 58373, A
c 115	16.8	54.2	3092	6	US-10-750-623-57967	Sequence 57967, A	c 188	16.4	52.9	731	6	US-10-750-623-58373	Sequence 58373, A
c 116	16.8	54.2	45517	6	US-10-995-561-13455	Sequence 13455, A	c 189	16.4	52.9	870	6	US-10-750-185-40787	Sequence 40787, A
c 117	16.8	54.2	57073	6	US-10-995-561-13275	Sequence 13275, A	c 190	16.4	52.9	870	6	US-10-750-623-40787	Sequence 40787, A
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c 122	16.8	54.2	380749	6	US-10-995-561-13216	Sequence 13216, A	c 195	16.4	52.9	1113	6	US-10-525-674-35	Sequence 35, Appl
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c 155	16.6	53.5	134174	7	US-11-121-086-99	Sequence 99, Appl	c 228	16.4	52.9	118996	7	US-11-121-086-84	Sequence 84, Appl
c 156	16.6	53.5	163162	7	US-11-121-086-66	Sequence 66, Appl	c 229	16.4	52.9	120096	7	US-11-121-086-24	Sequence 24, Appl
c 157	16.6	53.5	167891	7	US-11-121-086-14	Sequence 14, Appl	c 230	16.4	52.9	153142	7	US-11-121-086-27	Sequence 27, Appl
c 158	16.6	53.5	168151	7	US-11-121-086-3	Sequence 3, Appl	c 231	16.4	52.9	159138	6	US-10-995-561-13230	Sequence 13230, A
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c 162	16.6	53.5	380749	6	US-10-995-561-13216	Sequence 13216, A	c 235	16.4	52.9	172649	7	US-11-121-086-36	Sequence 36, Appl
c 163	16.6	53.5	1125000	6	US-10-995-561-13286	Sequence 13286, A	c 236	16.4	52.9	173602	7	US-11-121-086-25	Sequence 25, Appl
c 164	16.4	52.9	26	6	US-10-310-914A-912159	Sequence 912159, A	c 237	16.4	52.9	173602	7	US-11-121-086-25	Sequence 25, Appl
c 165	16.4	52.9	120	6	US-10-880-315-58	Sequence 58, Appl	c 238	16.4	52.9	175673	7	US-11-121-086-55	Sequence 55, Appl
c 166	16.4	52.9	201	6	US-10-995-561-28290	Sequence 28290, A	c 239	16.4	52.9	176503	7	US-11-121-086-53	Sequence 53, Appl
c 167	16.4	52.9	201	6	US-10-995-561-28652	Sequence 28652, A	c 240	16.4	52.9	178468	7	US-11-121-086-88	Sequence 88, Appl
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c 169	16.4	52.9	201	6	US-10-995-561-48243	Sequence 48243, A	c 242	16.4	52.9	197781	7	US-11-112-908-34	Sequence 34, Appl

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393	16	51.6	1080000	6	US-10-928-446A-199	Sequence 199, App	c 466	15.8	51.0	1928	6	US-10-750-185-43392	Sequence 43392, A
394	16	51.6	1080000	6	US-10-928-446A-201	Sequence 201, App	c 467	15.8	51.0	1928	6	US-10-750-623-43392	Sequence 43392, A
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397	15.8	51.0	201	6	US-10-995-561-34112	Sequence 34112, A	c 470	15.8	51.0	2106	6	US-10-750-623-40055	Sequence 40055, A
398	15.8	51.0	201	6	US-10-995-561-34122	Sequence 34122, A	c 471	15.8	51.0	2254	6	US-10-750-185-28452	Sequence 28452, A
399	15.8	51.0	201	6	US-10-995-561-34123	Sequence 34123, A	c 472	15.8	51.0	2254	6	US-10-750-623-28452	Sequence 28452, A
400	15.8	51.0	201	6	US-10-995-561-39615	Sequence 39615, A	c 473	15.8	51.0	2277	6	US-10-467-657-2721	Sequence 2721, App
401	15.8	51.0	201	6	US-10-995-561-40141	Sequence 40141, A	c 474	15.8	51.0	2288	6	US-10-750-185-51806	Sequence 51806, A
402	15.8	51.0	201	6	US-10-995-561-40276	Sequence 40276, A	c 475	15.8	51.0	2288	6	US-10-750-623-51806	Sequence 51806, A
403	15.8	51.0	201	6	US-10-995-561-52273	Sequence 52273, A	c 476	15.8	51.0	2448	6	US-10-750-185-37434	Sequence 37434, A
404	15.8	51.0	201	7	US-11-124-368A-1004	Sequence 1004, App	c 477	15.8	51.0	2448	6	US-10-750-623-37434	Sequence 37434, A
405	15.8	51.0	201	7	US-11-124-368A-9294	Sequence 9294, App	c 478	15.8	51.0	2822	6	US-10-131-826A-305	Sequence 305, App
406	15.8	51.0	201	7	US-11-124-368A-10070	Sequence 10070, App	c 479	15.8	51.0	2848	6	US-10-750-185-59004	Sequence 59004, A
407	15.8	51.0	415	7	US-11-000-688-227	Sequence 227, App	c 480	15.8	51.0	2848	6	US-10-750-623-59004	Sequence 59004, A
408	15.8	51.0	598	6	US-10-750-185-4449	Sequence 4449, App	c 481	15.8	51.0	3018	6	US-10-750-185-60261	Sequence 60261, A
409	15.8	51.0	598	6	US-10-750-623-4449	Sequence 4449, App	c 482	15.8	51.0	3018	6	US-10-750-623-60261	Sequence 60261, A
410	15.8	51.0	600	6	US-10-750-185-868	Sequence 868, App	c 483	15.8	51.0	3029	6	US-10-793-626-4197	Sequence 4197, App
411	15.8	51.0	600	6	US-10-750-185-4267	Sequence 4267, App	c 484	15.8	51.0	3107	7	US-11-136-527-1021	Sequence 1021, App
412	15.8	51.0	600	6	US-10-750-623-868	Sequence 868, App	c 485	15.8	51.0	4098	6	US-10-821-234-156	Sequence 156, App
413	15.8	51.0	600	6	US-10-750-623-4267	Sequence 4267, App	c 486	15.8	51.0	4100	6	US-10-793-626-4162	Sequence 4162, App
414	15.8	51.0	600	7	US-11-136-527-5117	Sequence 5117, App	c 487	15.8	51.0	4572	7	US-11-136-527-292	Sequence 292, App
415	15.8	51.0	600	7	US-11-136-527-7822	Sequence 7822, App	c 488	15.8	51.0	4773	7	US-11-214-613-32	Sequence 32, App
416	15.8	51.0	684	6	US-10-948-429A-5	Sequence 5, Appl	c 489	15.8	51.0	4854	7	US-11-136-527-3726	Sequence 3726, App
417	15.8	51.0	853	6	US-10-750-185-63568	Sequence 63568, A	c 490	15.8	51.0	4932	7	US-11-124-368A-63	Sequence 63, Appl
418	15.8	51.0	853	6	US-10-750-623-63568	Sequence 63568, A	c 491	15.8	51.0	4950	7	US-11-214-613-34	Sequence 34, Appl
419	15.8	51.0	856	6	US-10-750-185-51770	Sequence 51770, A	c 492	15.8	51.0	4965	7	US-11-214-613-37	Sequence 37, Appl
420	15.8	51.0	856	6	US-10-750-623-51770	Sequence 51770, A	c 493	15.8	51.0	4974	7	US-11-214-613-35	Sequence 35, Appl
421	15.8	51.0	862	6	US-10-750-185-24591	Sequence 24591, A	c 494	15.8	51.0	5164	7	US-11-214-613-36	Sequence 36, Appl
422	15.8	51.0	862	6	US-10-750-623-24591	Sequence 24591, A	c 495	15.8	51.0	5277	7	US-11-214-613-25	Sequence 25, Appl
423	15.8	51.0	915	6	US-10-750-185-35596	Sequence 35596, A	c 496	15.8	51.0	5295	7	US-11-214-613-38	Sequence 38, Appl
424	15.8	51.0	915	6	US-10-750-623-35596	Sequence 35596, A	c 497	15.8	51.0	5327	7	US-11-214-613-27	Sequence 27, Appl
425	15.8	51.0	921	7	US-11-038-981A-7	Sequence 7, Appl	c 498	15.8	51.0	5337	7	US-11-214-613-19	Sequence 19, Appl
426	15.8	51.0	1065	7	US-11-038-981A-15	Sequence 15, Appl	c 499	15.8	51.0	5337	7	US-11-214-613-31	Sequence 31, Appl
427	15.8	51.0	1065	7	US-11-038-981A-17	Sequence 17, Appl	c 500	15.8	51.0	5337	7	US-11-214-613-23	Sequence 23, Appl
428	15.8	51.0	1073	7	US-11-038-981A-16	Sequence 16, Appl	c 501	15.8	51.0	5338	7	US-11-214-613-15	Sequence 15, Appl
429	15.8	51.0	1150	7	US-11-038-981A-14	Sequence 14, Appl	c 502	15.8	51.0	5338	7	US-11-214-613-29	Sequence 29, Appl
430	15.8	51.0	1154	6	US-10-750-185-56283	Sequence 56283, A	c 503	15.8	51.0	5345	7	US-11-214-613-17	Sequence 17, Appl
431	15.8	51.0	1154	6	US-10-750-623-56283	Sequence 56283, A	c 504	15.8	51.0	5387	7	US-11-214-613-41	Sequence 41, Appl
432	15.8	51.0	1158	7	US-11-038-981A-12	Sequence 12, Appl	c 505	15.8	51.0	5395	7	US-11-214-613-21	Sequence 21, Appl
433	15.8	51.0	1158	7	US-11-038-981A-13	Sequence 13, Appl	c 506	15.8	51.0	6377	7	US-11-069-834-57	Sequence 57, Appl
434	15.8	51.0	1176	7	US-11-038-981A-11	Sequence 11, Appl	c 507	15.8	51.0	6442	7	US-11-069-834-55	Sequence 55, Appl
435	15.8	51.0	1184	7	US-11-038-981A-9	Sequence 9, Appl	c 508	15.8	51.0	7300	7	US-11-136-527-1989	Sequence 1989, App
436	15.8	51.0	1184	7	US-11-038-981A-10	Sequence 10, Appl	c 509	15.8	51.0	8231	7	US-11-136-527-1928	Sequence 1928, App
437	15.8	51.0	1206	6	US-10-750-185-49629	Sequence 49629, A	c 510	15.8	51.0	23672	6	US-10-995-561-13267	Sequence 13267, A
438	15.8	51.0	1206	6	US-10-750-623-49629	Sequence 49629, A	c 511	15.8	51.0	60754	6	US-10-995-561-13440	Sequence 13440, A
439	15.8	51.0	1249	7	US-11-128-061-527	Sequence 527, App	c 512	15.8	51.0	66131	6	US-10-995-561-13501	Sequence 13501, A
440	15.8	51.0	1249	7	US-11-128-061-4169	Sequence 4169, App	c 513	15.8	51.0	93112	6	US-10-995-561-13234	Sequence 13234, A
441	15.8	51.0	1259	7	US-11-214-613-43	Sequence 43, Appl	c 514	15.8	51.0	100000	6	US-11-124-368A-2899	Sequence 2899, App
442	15.8	51.0	1273	7	US-11-038-981A-18	Sequence 18, Appl	c 515	15.8	51.0	130472	6	US-10-995-561-13312	Sequence 13312, A
443	15.8	51.0	1273	7	US-11-038-981A-20	Sequence 20, Appl	c 516	15.8	51.0	130472	6	US-10-995-561-13312	Sequence 13312, A
444	15.8	51.0	1281	7	US-11-038-981A-19	Sequence 19, Appl	c 517	15.8	51.0	149382	6	US-10-995-561-13272	Sequence 13272, A
445	15.8	51.0	1330	6	US-10-750-185-47047	Sequence 47047, App	c 518	15.8	51.0	152335	7	US-11-121-086-73	Sequence 73, Appl
446	15.8	51.0	1330	6	US-10-750-623-47047	Sequence 47047, App	c 519	15.8	51.0	154538	7	US-11-121-086-33	Sequence 33, Appl
447	15.8	51.0	1355	6	US-10-750-185-62831	Sequence 62831, A	c 520	15.8	51.0	156735	7	US-11-121-086-93	Sequence 93, Appl
448	15.8	51.0	1355	6	US-10-750-623-62831	Sequence 62831, A	c 521	15.8	51.0	162289	7	US-11-121-086-20	Sequence 20, Appl
449	15.8	51.0	1400	7	US-11-136-527-4519	Sequence 4519, App	c 522	15.8	51.0	167116	7	US-11-121-086-44	Sequence 44, Appl
450	15.8	51.0	1400	7	US-11-128-061-4626	Sequence 4626, App	c 523	15.8	51.0	169725	7	US-11-121-086-63	Sequence 63, Appl
451	15.8	51.0	1437	7	US-11-128-061-984	Sequence 984, App	c 524	15.8	51.0	172649	7	US-11-121-086-36	Sequence 36, Appl
452	15.8	51.0	1459	7	US-11-038-981A-23	Sequence 23, Appl	c 525	15.8	51.0	175416	7	US-11-121-086-43	Sequence 43, Appl
453	15.8	51.0	1467	7	US-11-038-981A-21	Sequence 21, Appl	c 526	15.8	51.0	177623	7	US-11-112-908-43	Sequence 43, Appl
454	15.8	51.0	1467	7	US-11-038-981A-22	Sequence 22, Appl	c 527	15.8	51.0	179892	7	US-11-112-908-39	Sequence 39, Appl
455	15.8	51.0	1531	6	US-10-750-185-57262	Sequence 57262, A	c 528	15.8	51.0	187745	7	US-11-121-086-84	Sequence 84, Appl
456	15.8	51.0	1531	6	US-10-750-623-57262	Sequence 57262, A	c 529	15.8	51.0	189252	7	US-11-121-086-54	Sequence 54, Appl
457	15.8	51.0	1600	6	US-10-750-185-47620	Sequence 47620, A	c 530	15.8	51.0	193084	6	US-11-121-086-82	Sequence 82, Appl
458	15.8	51.0	1600	6	US-10-750-623-47620	Sequence 47620, A	c 531	15.8	51.0	201900	7	US-10-995-561-13303	Sequence 13303, A
459	15.8	51.0	1729	6	US-10-750-185-63053	Sequence 63053, A	c 532	15.8	51.0	207600	7	US-11-112-908-31	Sequence 31, Appl
460	15.8	51.0	1729	6	US-10-750-623-63053	Sequence 63053, A	c 533	15.8	51.0	215308	7	US-11-121-086-77	Sequence 77, Appl
461	15.8	51.0	1773	6	US-10-750-185-37916	Sequence 37916, A	c 534	15.8	51.0	403278	6	US-10-995-561-13421	Sequence 13421, A

535	15.8	15.8	645179	6	US-10-995-561-13293	Sequence 13293, A	608	15.6	50.3	873	6	US-10-750-623-40971	Sequence 40971, A
536	15.8	51.0	1125000	6	US-10-995-561-13286	Sequence 13286, A	c 609	15.6	50.3	930	6	US-10-750-185-31117	Sequence 31117, A
537	15.6	50.3	25	7	US-11-136-527-241544	Sequence 241544, A	c 610	15.6	50.3	930	6	US-10-750-623-31117	Sequence 31117, A
538	15.6	50.3	26	6	US-10-310-914A-1039144	Sequence 1039144, A	c 611	15.6	50.3	1080	7	US-11-192-450-5	Sequence 5, Appli
539	15.6	50.3	39	6	US-10-509-787A-81	Sequence 81, Appli	c 612	15.6	50.3	1091	6	US-10-750-185-28068	Sequence 28068, A
540	15.6	50.3	77	6	US-10-310-914A-3126	Sequence 3126, Ap	c 613	15.6	50.3	1091	6	US-10-750-185-30555	Sequence 30555, A
541	15.6	50.3	201	6	US-10-995-561-5208	Sequence 5208, Ap	c 614	15.6	50.3	1091	6	US-10-750-623-28068	Sequence 28068, A
542	15.6	50.3	201	6	US-10-995-561-5273	Sequence 5273, Ap	c 615	15.6	50.3	1091	6	US-10-750-623-30555	Sequence 30555, A
543	15.6	50.3	201	6	US-10-995-561-5293	Sequence 5293, Ap	c 616	15.6	50.3	1100	6	US-10-750-185-54952	Sequence 54952, A
544	15.6	50.3	201	6	US-10-995-561-5352	Sequence 5352, Ap	c 617	15.6	50.3	1100	6	US-10-750-623-54952	Sequence 54952, A
545	15.6	50.3	201	6	US-10-995-561-5372	Sequence 5372, Ap	c 618	15.6	50.3	1162	6	US-10-750-185-60793	Sequence 60793, A
546	15.6	50.3	201	6	US-10-995-561-5430	Sequence 5430, Ap	c 619	15.6	50.3	1162	6	US-10-750-623-60793	Sequence 60793, A
547	15.6	50.3	201	6	US-10-995-561-11290	Sequence 11290, A	c 620	15.6	50.3	1171	6	US-10-750-185-42649	Sequence 42649, A
548	15.6	50.3	201	6	US-10-995-561-11298	Sequence 11298, A	c 621	15.6	50.3	1171	6	US-10-750-623-42649	Sequence 42649, A
549	15.6	50.3	201	6	US-10-995-561-16723	Sequence 16723, A	c 622	15.6	50.3	1215	7	US-11-192-450-1	Sequence 1, Appli
550	15.6	50.3	201	6	US-10-995-561-28955	Sequence 28955, A	c 623	15.6	50.3	1227	6	US-10-775-169-227	Sequence 227, App
551	15.6	50.3	201	6	US-10-995-561-29228	Sequence 29228, A	c 624	15.6	50.3	1256	6	US-10-750-185-40163	Sequence 40163, A
552	15.6	50.3	201	6	US-10-995-561-35212	Sequence 35212, A	c 625	15.6	50.3	1256	6	US-10-750-623-40163	Sequence 40163, A
553	15.6	50.3	201	6	US-10-995-561-35213	Sequence 35213, A	c 626	15.6	50.3	1307	6	US-10-750-185-46807	Sequence 46807, A
554	15.6	50.3	201	6	US-10-995-561-35214	Sequence 35214, A	c 627	15.6	50.3	1307	6	US-10-750-623-46807	Sequence 46807, A
555	15.6	50.3	201	6	US-10-995-561-42806	Sequence 42806, A	c 628	15.6	50.3	1352	6	US-10-750-185-26053	Sequence 26053, A
556	15.6	50.3	201	6	US-10-995-561-42806	Sequence 42806, A	c 629	15.6	50.3	1352	6	US-10-750-623-26053	Sequence 26053, A
557	15.6	50.3	201	6	US-10-995-561-45968	Sequence 45968, A	c 630	15.6	50.3	1360	7	US-11-136-527-1832	Sequence 1832, Ap
558	15.6	50.3	201	6	US-10-995-561-46004	Sequence 46004, A	c 631	15.6	50.3	1400	7	US-11-136-527-6356	Sequence 6356, Ap
559	15.6	50.3	201	6	US-10-995-561-48506	Sequence 48506, A	c 632	15.6	50.3	1415	6	US-10-750-185-28196	Sequence 28196, A
560	15.6	50.3	201	6	US-10-995-561-56049	Sequence 56049, A	c 633	15.6	50.3	1415	6	US-10-750-623-28196	Sequence 28196, A
561	15.6	50.3	201	6	US-10-995-561-58972	Sequence 58972, A	c 634	15.6	50.3	1469	6	US-10-750-185-29835	Sequence 29835, A
562	15.6	50.3	201	6	US-10-995-561-66341	Sequence 66341, A	c 635	15.6	50.3	1469	6	US-10-750-623-29835	Sequence 29835, A
563	15.6	50.3	201	6	US-10-995-561-75876	Sequence 75876, A	c 636	15.6	50.3	1472	6	US-10-750-185-41524	Sequence 41524, A
564	15.6	50.3	201	6	US-10-995-561-81570	Sequence 81570, A	c 637	15.6	50.3	1472	6	US-10-750-623-41524	Sequence 41524, A
565	15.6	50.3	201	6	US-10-995-561-84301	Sequence 84301, A	c 638	15.6	50.3	1481	6	US-10-995-561-434	Sequence 434, App
566	15.6	50.3	201	6	US-10-995-561-84304	Sequence 84304, A	c 639	15.6	50.3	1510	6	US-10-750-185-45682	Sequence 45682, A
567	15.6	50.3	201	6	US-10-995-561-84307	Sequence 84307, A	c 640	15.6	50.3	1510	6	US-10-750-623-45682	Sequence 45682, A
568	15.6	50.3	201	6	US-10-995-561-84325	Sequence 84325, A	c 641	15.6	50.3	1521	6	US-10-750-185-62372	Sequence 62372, A
569	15.6	50.3	201	6	US-10-995-561-84326	Sequence 84326, A	c 642	15.6	50.3	1521	6	US-10-750-623-62372	Sequence 62372, A
570	15.6	50.3	201	6	US-10-995-561-84397	Sequence 84397, A	c 643	15.6	50.3	1537	6	US-10-750-185-54634	Sequence 54634, A
571	15.6	50.3	201	7	US-11-124-368A-413	Sequence 413, App	c 644	15.6	50.3	1537	6	US-10-750-623-54634	Sequence 54634, A
572	15.6	50.3	201	7	US-11-124-368A-4477	Sequence 4477, Ap	c 645	15.6	50.3	1575	6	US-10-995-561-433	Sequence 433, App
573	15.6	50.3	201	7	US-11-124-368A-5658	Sequence 5658, Ap	c 646	15.6	50.3	1586	6	US-10-750-185-44026	Sequence 44026, A
574	15.6	50.3	201	7	US-11-124-368A-6475	Sequence 6475, Ap	c 647	15.6	50.3	1586	6	US-10-750-623-44026	Sequence 44026, A
575	15.6	50.3	201	7	US-11-124-368A-6902	Sequence 6902, Ap	c 648	15.6	50.3	1599	6	US-10-750-185-28517	Sequence 28517, A
576	15.6	50.3	201	7	US-11-124-368A-14021	Sequence 14021, A	c 649	15.6	50.3	1599	6	US-10-750-623-28517	Sequence 28517, A
577	15.6	50.3	201	7	US-11-124-368A-15681	Sequence 15681, A	c 650	15.6	50.3	1610	6	US-10-750-185-52482	Sequence 52482, A
578	15.6	50.3	201	7	US-11-124-368A-15682	Sequence 15682, A	c 651	15.6	50.3	1610	6	US-10-750-623-52482	Sequence 52482, A
579	15.6	50.3	201	7	US-11-124-368A-17820	Sequence 17820, A	c 652	15.6	50.3	1611	7	US-11-214-199-13	Sequence 13, Appli
580	15.6	50.3	201	7	US-11-124-368A-17821	Sequence 17821, A	c 653	15.6	50.3	1611	7	US-10-750-185-35002	Sequence 35002, A
581	15.6	50.3	201	7	US-11-124-368A-20003	Sequence 20003, A	c 654	15.6	50.3	1785	6	US-10-750-623-35002	Sequence 35002, A
582	15.6	50.3	201	7	US-11-124-368A-20484	Sequence 20484, A	c 655	15.6	50.3	1791	6	US-10-750-185-43115	Sequence 43115, A
583	15.6	50.3	401	6	US-10-857-780-4957	Sequence 4957, Ap	c 656	15.6	50.3	1791	6	US-10-750-623-43115	Sequence 43115, A
584	15.6	50.3	470	7	US-11-000-688-1230	Sequence 1230, Ap	c 657	15.6	50.3	1959	6	US-10-750-185-44623	Sequence 44623, A
585	15.6	50.3	493	7	US-11-136-527-3928	Sequence 3928, Ap	c 658	15.6	50.3	1959	6	US-10-750-623-44623	Sequence 44623, A
586	15.6	50.3	493	7	US-11-136-527-8024	Sequence 8024, Ap	c 659	15.6	50.3	1971	6	US-10-750-185-58644	Sequence 58644, A
587	15.6	50.3	507	7	US-11-128-061-1792	Sequence 1792, Ap	c 660	15.6	50.3	1971	6	US-10-750-623-58644	Sequence 58644, A
588	15.6	50.3	507	7	US-11-128-061-5434	Sequence 5434, Ap	c 661	15.6	50.3	2020	6	US-10-750-185-44101	Sequence 44101, A
589	15.6	50.3	552	7	US-11-128-061-6481	Sequence 6481, Ap	c 662	15.6	50.3	2020	6	US-10-750-623-44101	Sequence 44101, A
590	15.6	50.3	571	7	US-11-136-527-1373	Sequence 1373, Ap	c 663	15.6	50.3	2118	6	US-10-750-185-58311	Sequence 58311, A
591	15.6	50.3	571	7	US-11-136-527-5469	Sequence 5469, Ap	c 664	15.6	50.3	2118	6	US-10-750-623-58311	Sequence 58311, A
592	15.6	50.3	580	7	US-11-128-061-2330	Sequence 2330, Ap	c 665	15.6	50.3	2140	6	US-10-750-185-25050	Sequence 25050, A
593	15.6	50.3	580	7	US-11-128-061-2839	Sequence 2839, Ap	c 666	15.6	50.3	2140	6	US-10-750-623-25050	Sequence 25050, A
594	15.6	50.3	580	7	US-11-128-061-5972	Sequence 5972, Ap	c 667	15.6	50.3	2255	6	US-10-750-185-34959	Sequence 34959, A
595	15.6	50.3	600	6	US-10-750-185-2466	Sequence 2466, Ap	c 668	15.6	50.3	2255	6	US-10-750-623-34959	Sequence 34959, A
596	15.6	50.3	600	6	US-10-750-185-2475	Sequence 2475, Ap	c 669	15.6	50.3	2340	6	US-10-750-623-25399	Sequence 25399, A
597	15.6	50.3	600	6	US-10-750-185-20373	Sequence 20373, A	c 670	15.6	50.3	2340	6	US-10-750-623-25399	Sequence 25399, A
598	15.6	50.3	600	6	US-10-750-185-20433	Sequence 20433, A	c 671	15.6	50.3	2362	7	US-11-124-368A-9	Sequence 9, Appli
599	15.6	50.3	600	6	US-10-750-623-2466	Sequence 2466, Ap	c 672	15.6	50.3	2376	7	US-11-000-688-372	Sequence 372, App
600	15.6	50.3	600	6	US-10-750-623-2475	Sequence 2475, Ap	c 673	15.6	50.3	2390	7	US-11-136-527-2250	Sequence 2250, Ap
601	15.6	50.3	600	6	US-10-750-623-20273	Sequence 20273, A	c 674	15.6	50.3	2396	6	US-10-750-185-35760	Sequence 35760, A
602	15.6	50.3	600	6	US-10-750-623-20433	Sequence 20433, A	c 675	15.6	50.3	2396	6	US-10-750-623-35760	Sequence 35760, A
603	15.6	50.3	771	6	US-10-750-185-30032	Sequence 30032, A	c 676	15.6	50.3	2425	6	US-10-750-185-37067	Sequence 37067, A
604	15.6	50.3	771	6	US-10-750-623-30032	Sequence 30032, A	c 677	15.6	50.3	2425	6	US-10-750-623-37067	Sequence 37067, A
605	15.6	50.3	771	6	US-10-750-185-44114	Sequence 44114, A	c 678	15.6	50.3	2486	6	US-10-967-648A-1	Sequence 1, Appli
606	15.6	50.3	791	6	US-10-750-623-44114	Sequence 44114, A	c 679	15.6	50.3	2536	7	US-11-087-227-9	Sequence 9, Appli
607	15.6	50.3	873	6	US-10-750-185-40971	Sequence 40971, A	c 680	15.6	50.3	2543	6	US-10-775-169-168	Sequence 168, Appli

c 681	15.6	50.3	2613	7	US-11-087-227-7	Sequence 7, Appli	c 754	15.6	50.3	98309	7	US-11-124-368A-2921	Sequence 2921, Ap
c 682	15.6	50.3	2652	6	US-10-750-185-45799	Sequence 45799, A	755	15.6	50.3	103931	7	US-11-117-187-193	Sequence 193, App
c 683	15.6	50.3	2652	6	US-10-750-623-45799	Sequence 45799, A	756	15.6	50.3	148935	7	US-10-995-561-13308	Sequence 13308, A
c 684	15.6	50.3	2661	7	US-11-136-527-2671	Sequence 2671, Ap	757	15.6	50.3	149419	7	US-11-112-908-49	Sequence 49, Appl
c 685	15.6	50.3	2748	7	US-11-087-227-5	Sequence 5, Appli	758	15.6	50.3	150450	7	US-11-112-908-54	Sequence 54, Appl
c 686	15.6	50.3	2821	7	US-11-136-527-2560	Sequence 2560, Ap	c 759	15.6	50.3	152335	7	US-11-121-086-73	Sequence 73, Appl
c 687	15.6	50.3	2964	6	US-10-750-185-58810	Sequence 58810, A	c 760	15.6	50.3	154452	7	US-11-121-086-74	Sequence 74, Appl
c 688	15.6	50.3	2964	6	US-10-750-623-58810	Sequence 58810, A	c 761	15.6	50.3	156297	7	US-11-121-086-65	Sequence 65, Appl
c 689	15.6	50.3	3024	6	US-10-517-939-83	Sequence 83, Appl	762	15.6	50.3	161726	7	US-11-112-908-48	Sequence 48, Appl
c 690	15.6	50.3	3036	6	US-10-750-185-51483	Sequence 51483, A	763	15.6	50.3	161726	7	US-11-112-908-52	Sequence 52, Appl
c 691	15.6	50.3	3036	6	US-10-750-623-51483	Sequence 51483, A	c 764	15.6	50.3	161874	7	US-11-121-086-75	Sequence 75, Appl
c 692	15.6	50.3	3128	6	US-10-750-185-39637	Sequence 39637, A	765	15.6	50.3	162085	7	US-11-121-086-7	Sequence 7, Appli
c 693	15.6	50.3	3128	6	US-10-750-623-39637	Sequence 39637, A	766	15.6	50.3	162289	7	US-11-121-086-20	Sequence 20, Appl
c 694	15.6	50.3	3137	6	US-10-750-185-61405	Sequence 61405, A	c 767	15.6	50.3	162537	7	US-11-121-086-59	Sequence 59, Appl
c 695	15.6	50.3	3137	6	US-10-750-623-61405	Sequence 61405, A	c 768	15.6	50.3	165156	6	US-10-995-561-13304	Sequence 13304, A
c 696	15.6	50.3	3160	8	US-11-112-944-8	Sequence 8, Appli	769	15.6	50.3	166111	7	US-11-112-908-47	Sequence 47, Appl
c 697	15.6	50.3	3187	6	US-10-750-185-32240	Sequence 32240, A	c 770	15.6	50.3	166639	7	US-11-121-086-52	Sequence 52, Appl
c 698	15.6	50.3	3187	6	US-10-750-623-32240	Sequence 32240, A	771	15.6	50.3	170995	7	US-11-121-086-35	Sequence 35, Appl
c 699	15.6	50.3	3237	6	US-10-420-192-5	Sequence 5, Appli	772	15.6	50.3	171936	6	US-10-933-025-24	Sequence 24, Appl
c 700	15.6	50.3	3255	7	US-11-136-527-3345	Sequence 3345, Ap	773	15.6	50.3	175100	7	US-11-121-086-21	Sequence 21, Appl
c 701	15.6	50.3	3454	7	US-11-124-368A-125	Sequence 125, App	c 774	15.6	50.3	175416	7	US-11-121-086-43	Sequence 43, Appl
c 702	15.6	50.3	3516	7	US-11-124-368A-124	Sequence 124, App	775	15.6	50.3	182303	7	US-11-121-086-45	Sequence 45, Appl
c 703	15.6	50.3	3542	6	US-10-750-185-31291	Sequence 31291, A	c 776	15.6	50.3	182314	7	US-11-112-908-45	Sequence 45, Appl
c 704	15.6	50.3	3542	6	US-10-750-623-31291	Sequence 31291, A	777	15.6	50.3	190276	6	US-10-661-966-1	Sequence 1, Appli
c 705	15.6	50.3	3765	6	US-10-750-185-64080	Sequence 64080, A	c 778	15.6	50.3	190276	6	US-10-661-966-1	Sequence 1, Appli
c 706	15.6	50.3	3765	6	US-10-750-623-64080	Sequence 64080, A	779	15.6	50.3	190882	7	US-11-121-086-69	Sequence 69, Appl
c 707	15.6	50.3	3849	7	US-11-124-368A-126	Sequence 126, App	c 780	15.6	50.3	191331	7	US-11-112-908-20	Sequence 20, Appl
c 708	15.6	50.3	4070	7	US-11-000-688-134	Sequence 134, App	781	15.6	50.3	191350	6	US-10-857-780-4	Sequence 4, Appli
c 709	15.6	50.3	4174	7	US-10-775-169-117	Sequence 117, App	c 782	15.6	50.3	196200	7	US-11-121-086-9	Sequence 9, Appli
c 710	15.6	50.3	4273	7	US-11-108-528-29	Sequence 29, Appl	c 783	15.6	50.3	196285	6	US-10-775-169-338	Sequence 338, App
c 711	15.6	50.3	4378	7	US-11-136-527-2722	Sequence 2722, Ap	c 784	15.6	50.3	214000	6	US-10-769-744-1	Sequence 1, Appli
c 712	15.6	50.3	4689	7	US-11-052-554A-594	Sequence 594, App	785	15.6	50.3	244196	6	US-10-995-561-13327	Sequence 13327, A
c 713	15.6	50.3	5132	6	US-10-750-185-27372	Sequence 27372, A	c 786	15.6	50.3	246960	7	US-11-121-086-8	Sequence 8, Appli
c 714	15.6	50.3	5132	6	US-10-750-623-27372	Sequence 27372, A	787	15.6	50.3	321019	6	US-10-995-561-13204	Sequence 13204, A
c 715	15.6	50.3	5432	6	US-10-453-372-1143	Sequence 1143, Ap	c 788	15.6	50.3	321019	6	US-10-995-561-13204	Sequence 13204, A
c 716	15.6	50.3	5432	6	US-10-453-372-1153	Sequence 1153, Ap	789	15.6	50.3	611587	7	US-11-117-187-209	Sequence 209, Appl
c 717	15.6	50.3	6076	7	US-11-136-527-2597	Sequence 2597, Ap	c 790	15.6	50.3	6191140	7	US-11-091-018-1	Sequence 1, Appli
c 718	15.6	50.3	6914	6	US-11-000-688-1053	Sequence 1053, Ap	791	15.4	49.7	25	7	US-11-121-849-149844	Sequence 149844, A
c 719	15.6	50.3	6921	6	US-10-678-790-52	Sequence 52, Appl	792	15.4	49.7	25	7	US-11-121-849-290883	Sequence 290883, A
c 720	15.6	50.3	7319	7	US-11-136-527-2553	Sequence 2553, Ap	793	15.4	49.7	25	7	US-11-121-849-518390	Sequence 518390, A
c 721	15.6	50.3	7459	6	US-10-453-372-1151	Sequence 1151, Ap	c 794	15.4	49.7	25	7	US-11-136-527-353571	Sequence 353571, A
c 722	15.6	50.3	8911	7	US-11-136-527-616	Sequence 616, App	795	15.4	49.7	25	7	US-11-136-527-353571	Sequence 353571, A
c 723	15.6	50.3	13377	7	US-11-124-368A-2882	Sequence 2882, Ap	c 796	15.4	49.7	26	6	US-10-310-914A-1113261	Sequence 1113261, A
c 724	15.6	50.3	13650	6	US-10-995-561-155	Sequence 155, App	c 797	15.4	49.7	88	6	US-10-310-914A-5772	Sequence 5772, Ap
c 725	15.6	50.3	13711	6	US-10-995-561-154	Sequence 154, App	c 798	15.4	49.7	201	6	US-10-995-561-19710	Sequence 19710, A
c 726	15.6	50.3	14194	6	US-10-995-561-153	Sequence 153, App	799	15.4	49.7	201	6	US-10-995-561-26304	Sequence 26304, A
c 727	15.6	50.3	14342	6	US-10-821-234-303	Sequence 303, App	800	15.4	49.7	201	6	US-10-995-561-30119	Sequence 30119, A
c 728	15.6	50.3	18310	6	US-10-995-561-13290	Sequence 13290, A	c 801	15.4	49.7	201	6	US-10-995-561-31496	Sequence 31496, A
c 729	15.6	50.3	19986	6	US-10-995-561-13388	Sequence 13388, A	802	15.4	49.7	201	6	US-10-995-561-31496	Sequence 31496, A
c 730	15.6	50.3	20774	6	US-10-995-561-13291	Sequence 13291, A	c 803	15.4	49.7	201	6	US-10-995-561-36475	Sequence 36475, A
c 731	15.6	50.3	20991	6	US-10-995-561-13488	Sequence 13488, A	804	15.4	49.7	201	6	US-10-995-561-39782	Sequence 39782, A
c 732	15.6	50.3	21442	6	US-10-995-561-13469	Sequence 13469, A	c 805	15.4	49.7	201	6	US-10-995-561-41161	Sequence 41161, A
c 733	15.6	50.3	23606	6	US-10-995-561-13465	Sequence 13465, A	c 806	15.4	49.7	201	6	US-10-995-561-52395	Sequence 52395, A
c 734	15.6	50.3	26000	6	US-10-949-720-391	Sequence 391, App	807	15.4	49.7	201	6	US-10-995-561-67590	Sequence 67590, A
c 735	15.6	50.3	31657	6	US-10-995-561-13334	Sequence 13334, A	c 808	15.4	49.7	201	6	US-10-995-561-67776	Sequence 67776, A
c 736	15.6	50.3	31657	6	US-10-995-561-13334	Sequence 13334, A	c 808	15.4	49.7	201	6	US-10-995-561-74968	Sequence 74968, A
c 737	15.6	50.3	33175	6	US-10-995-561-13270	Sequence 13270, A	c 809	15.4	49.7	201	6	US-10-995-561-74972	Sequence 74972, A
c 738	15.6	50.3	35770	6	US-10-995-561-13296	Sequence 13296, A	810	15.4	49.7	201	6	US-10-995-561-76450	Sequence 76450, A
c 739	15.6	50.3	35962	6	US-10-775-169-234	Sequence 234, App	c 811	15.4	49.7	201	7	US-11-124-368A-3637	Sequence 3637, Ap
c 740	15.6	50.3	38492	7	US-11-124-368A-2916	Sequence 2916, Ap	812	15.4	49.7	201	7	US-11-124-368A-15158	Sequence 15158, A
c 741	15.6	50.3	40000	6	US-10-995-561-13512	Sequence 13512, A	c 813	15.4	49.7	201	7	US-11-124-368A-19737	Sequence 19737, A
c 742	15.6	50.3	41081	7	US-11-124-368A-2931	Sequence 2931, Ap	815	15.4	49.7	471	6	US-10-750-185-47088	Sequence 47088, A
c 743	15.6	50.3	48763	6	US-10-663-794-3	Sequence 3, Appli	c 816	15.4	49.7	471	6	US-10-750-623-47088	Sequence 47088, A
c 744	15.6	50.3	55763	6	US-10-972-766-1	Sequence 1, Appli	817	15.4	49.7	600	6	US-10-750-185-298	Sequence 298, App
c 745	15.6	50.3	56448	6	US-10-995-561-13369	Sequence 13369, A	818	15.4	49.7	600	6	US-10-750-623-298	Sequence 298, App
c 746	15.6	50.3	73072	7	US-11-124-368A-2919	Sequence 2919, Ap	c 819	15.4	49.7	715	6	US-10-750-185-47126	Sequence 47126, A
c 747	15.6	50.3	73404	7	US-11-124-368A-2914	Sequence 2914, Ap	c 820	15.4	49.7	715	6	US-10-750-623-47126	Sequence 47126, A
c 748	15.6	50.3	77358	7	US-11-124-368A-2917	Sequence 2917, Ap	821	15.4	49.7	752	6	US-10-750-185-51638	Sequence 51638, A
c 749	15.6	50.3	84409	6	US-10-995-561-13494	Sequence 13494, A	822	15.4	49.7	752	6	US-10-750-623-51638	Sequence 51638, A
c 750	15.6	50.3	86081	6	US-10-995-561-13246	Sequence 13246, A	c 823	15.4	49.7	822	6	US-10-750-185-55292	Sequence 55292, A
c 751	15.6	50.3	88873	6	US-10-995-561-13383	Sequence 13383, A	c 824	15.4	49.7	852	6	US-10-750-623-55292	Sequence 55292, A
c 752	15.6	50.3	91561	7	US-11-124-368A-2896	Sequence 2896, Ap	c 825	15.4	49.7	873	6	US-10-873-528-169	Sequence 169, App
c 753	15.6	50.3	96256	6	US-10-775-169-352	Sequence 352, Appl	826	15.4	49.7	968	6	US-10-750-185-54652	Sequence 54652, A

827	15.4	49.7	968	6	US-10-750-623-54652	Sequence 54652, A	900	15.4	49.7	5784	7	US-11-136-527-2025	Sequence 2025, Ap
828	15.4	49.7	1132	6	US-10-750-185-40878	Sequence 40878, A	c 901	15.4	49.7	8268	7	US-11-136-527-3386	Sequence 3386, Ap
829	15.4	49.7	1132	6	US-10-750-623-40878	Sequence 40878, A	902	15.4	49.7	23046	7	US-11-124-368A-2325	Sequence 2325, Ap
830	15.4	49.7	1194	6	US-10-750-185-44388	Sequence 44388, A	903	15.4	49.7	28524	6	US-10-995-561-13329	Sequence 13292, A
831	15.4	49.7	1194	6	US-10-750-623-44388	Sequence 44388, A	c 904	15.4	49.7	30151	6	US-10-995-561-13329	Sequence 13239, A
832	15.4	49.7	1218	6	US-10-750-185-58182	Sequence 58182, A	905	15.4	49.7	38527	7	US-11-124-368A-2312	Sequence 2312, Ap
c 833	15.4	49.7	1218	6	US-10-750-623-58182	Sequence 58182, A	c 906	15.4	49.7	51917	6	US-10-995-561-13338	Sequence 13338, A
834	15.4	49.7	1240	6	US-10-750-185-47985	Sequence 47985, A	907	15.4	49.7	94035	7	US-11-124-368A-2302	Sequence 2302, Ap
835	15.4	49.7	1240	6	US-10-750-623-47985	Sequence 47985, A	908	15.4	49.7	94035	7	US-11-124-368A-2302	Sequence 2302, Ap
836	15.4	49.7	1255	7	US-11-128-061-704	Sequence 704, App	909	15.4	49.7	96109	7	US-11-124-368A-2895	Sequence 2895, A
c 837	15.4	49.7	1255	7	US-11-128-061-4346	Sequence 4346, App	c 910	15.4	49.7	98345	7	US-11-112-908-36	Sequence 36, Appl
838	15.4	49.7	1284	6	US-10-508-263-95	Sequence 95, Appl	c 911	15.4	49.7	100000	7	US-11-124-368A-2873	Sequence 2873, Ap
c 839	15.4	49.7	1284	6	US-10-750-185-29215	Sequence 29215, A	c 912	15.4	49.7	100000	7	US-11-124-368A-2890	Sequence 2890, Ap
840	15.4	49.7	1284	6	US-10-750-623-29215	Sequence 29215, A	c 913	15.4	49.7	101001	6	US-10-995-561-13255	Sequence 13255, A
841	15.4	49.7	1293	6	US-10-750-185-56723	Sequence 56723, A	914	15.4	49.7	114801	6	US-11-121-086-22	Sequence 22, Appl
842	15.4	49.7	1293	6	US-10-750-623-56723	Sequence 56723, A	915	15.4	49.7	115935	6	US-10-775-169-241	Sequence 241, App
843	15.4	49.7	1358	6	US-10-750-185-25058	Sequence 25058, A	916	15.4	49.7	119160	7	US-11-121-086-12	Sequence 12, Appl
c 844	15.4	49.7	1358	6	US-10-750-623-25058	Sequence 25058, A	917	15.4	49.7	120697	7	US-11-121-086-48	Sequence 48, Appl
845	15.4	49.7	1369	6	US-10-750-185-54139	Sequence 54139, A	918	15.4	49.7	124972	7	US-11-121-086-100	Sequence 100, App
c 846	15.4	49.7	1369	6	US-10-750-623-54139	Sequence 54139, A	919	15.4	49.7	124972	7	US-11-121-086-106	Sequence 106, App
c 847	15.4	49.7	1400	7	US-11-136-527-7280	Sequence 7280, App	920	15.4	49.7	135019	6	US-10-849-438-11	Sequence 11, Appl
c 848	15.4	49.7	1400	7	US-11-136-527-7482	Sequence 7482, App	921	15.4	49.7	137000	6	US-10-515-538-11	Sequence 11, Appl
c 849	15.4	49.7	1512	6	US-10-750-185-51388	Sequence 51388, A	922	15.4	49.7	150437	7	US-11-112-908-44	Sequence 44, Appl
c 850	15.4	49.7	1512	6	US-10-750-623-51388	Sequence 51388, A	c 923	15.4	49.7	155989	7	US-11-121-086-57	Sequence 57, Appl
851	15.4	49.7	1671	6	US-10-467-657-5539	Sequence 5539, App	c 924	15.4	49.7	158410	7	US-11-121-086-46	Sequence 46, Appl
852	15.4	49.7	1800	7	US-11-000-463-44	Sequence 44, Appl	925	15.4	49.7	160170	7	US-11-121-086-32	Sequence 32, Appl
853	15.4	49.7	1850	6	US-10-750-185-62123	Sequence 62123, A	926	15.4	49.7	164527	7	US-11-121-086-71	Sequence 71, Appl
854	15.4	49.7	1850	6	US-10-750-623-62123	Sequence 62123, A	927	15.4	49.7	171423	7	US-11-121-086-85	Sequence 85, Appl
c 855	15.4	49.7	1893	6	US-10-750-185-58977	Sequence 58977, A	c 928	15.4	49.7	172543	7	US-11-121-086-6	Sequence 6, Appl
c 856	15.4	49.7	1893	6	US-10-750-623-58977	Sequence 58977, A	c 929	15.4	49.7	179777	7	US-11-121-086-91	Sequence 91, Appl
857	15.4	49.7	1931	6	US-10-750-185-45046	Sequence 45046, A	930	15.4	49.7	182314	7	US-11-121-086-106	Sequence 106, App
858	15.4	49.7	1931	6	US-10-750-623-45046	Sequence 45046, A	931	15.4	49.7	187786	6	US-10-995-561-13474	Sequence 13474, A
859	15.4	49.7	2110	6	US-10-947-249-172	Sequence 172, App	932	15.4	49.7	187986	6	US-10-995-561-13252	Sequence 13252, A
860	15.4	49.7	2153	6	US-10-750-185-56608	Sequence 56608, A	c 933	15.4	49.7	197096	7	US-11-121-086-107	Sequence 107, App
861	15.4	49.7	2153	6	US-10-750-623-56608	Sequence 56608, A	934	15.4	49.7	207835	7	US-11-121-086-39	Sequence 39, Appl
862	15.4	49.7	2211	7	US-10-836-953-2	Sequence 2, Appl	c 935	15.4	49.7	207835	7	US-11-121-086-40	Sequence 40, Appl
c 863	15.4	49.7	2410	7	US-11-136-527-3184	Sequence 3184, App	c 936	15.4	49.7	207835	7	US-11-121-086-23	Sequence 23, Appl
c 864	15.4	49.7	2463	6	US-10-453-372-519	Sequence 519, App	937	15.4	49.7	260209	6	US-10-933-025-22	Sequence 22, Appl
c 865	15.4	49.7	2575	6	US-10-453-372-517	Sequence 517, App	938	15.4	49.7	268685	6	US-10-933-025-22	Sequence 22, Appl
866	15.4	49.7	2614	6	US-10-750-185-63054	Sequence 63054, A	c 939	15.4	49.7	305312	6	US-10-995-561-13236	Sequence 13236, A
c 867	15.4	49.7	2614	6	US-10-750-623-63054	Sequence 63054, A	940	15.2	49.0	340000	7	US-11-102-978-3	Sequence 3, Appl
c 868	15.4	49.7	2752	6	US-10-624-932-1	Sequence 1, Appl	c 941	15.2	49.0	20	6	US-10-310-914A-448540	Sequence 448540, A
c 869	15.4	49.7	2752	6	US-10-453-372-513	Sequence 513, App	942	15.2	49.0	21	6	US-10-310-914A-544672	Sequence 544672, A
c 870	15.4	49.7	2881	6	US-10-453-372-505	Sequence 505, App	c 943	15.2	49.0	21	6	US-10-310-914A-785655	Sequence 785655, A
c 871	15.4	49.7	2881	6	US-10-453-372-521	Sequence 521, App	c 944	15.2	49.0	22	6	US-10-310-914A-1038895	Sequence 1038895, A
c 872	15.4	49.7	2881	6	US-10-453-372-523	Sequence 523, App	c 945	15.2	49.0	24	6	US-10-310-914A-23727	Sequence 23727, A
c 873	15.4	49.7	2881	6	US-10-453-372-525	Sequence 525, App	946	15.2	49.0	24	6	US-10-310-914A-751040	Sequence 751040, A
c 874	15.4	49.7	2881	6	US-10-453-372-527	Sequence 527, App	c 947	15.2	49.0	24	6	US-10-310-914A-1241888	Sequence 1241888, A
c 875	15.4	49.7	2881	6	US-10-453-372-529	Sequence 529, App	c 948	15.2	49.0	25	6	US-10-310-914A-544705	Sequence 544705, A
c 876	15.4	49.7	2881	6	US-10-453-372-531	Sequence 531, App	949	15.2	49.0	25	7	US-11-121-849-132987	Sequence 132987, A
c 877	15.4	49.7	2881	6	US-10-453-372-533	Sequence 533, App	950	15.2	49.0	25	7	US-11-121-849-453623	Sequence 453623, A
c 878	15.4	49.7	2881	6	US-10-453-372-535	Sequence 535, App	c 951	15.2	49.0	25	7	US-11-121-849-597638	Sequence 597638, A
c 879	15.4	49.7	2881	6	US-10-453-372-537	Sequence 537, App	c 952	15.2	49.0	25	7	US-11-136-527-241529	Sequence 241529, A
c 880	15.4	49.7	2881	6	US-10-453-372-539	Sequence 539, App	c 953	15.2	49.0	25	7	US-11-136-527-311057	Sequence 311057, A
c 881	15.4	49.7	2881	6	US-10-453-372-541	Sequence 541, App	954	15.2	49.0	94	6	US-10-310-914A-1395	Sequence 1395, Ap
c 882	15.4	49.7	2881	6	US-10-453-372-543	Sequence 543, App	955	15.2	49.0	95	6	US-10-310-914A-20406	Sequence 20406, A
c 883	15.4	49.7	3005	6	US-10-453-372-545	Sequence 545, App	c 956	15.2	49.0	171	6	US-10-467-657-6319	Sequence 6319, Ap
c 884	15.4	49.7	3005	6	US-10-453-372-546	Sequence 546, App	957	15.2	49.0	201	6	US-10-995-561-2529	Sequence 2529, Ap
c 885	15.4	49.7	3005	6	US-10-750-623-26664	Sequence 26664, A	958	15.2	49.0	201	6	US-10-995-561-2530	Sequence 2530, Ap
c 886	15.4	49.7	3087	7	US-11-136-527-1013	Sequence 1013, App	959	15.2	49.0	201	6	US-10-995-561-2532	Sequence 2532, Ap
c 887	15.4	49.7	3131	6	US-10-750-185-30367	Sequence 30367, A	960	15.2	49.0	201	6	US-10-995-561-2534	Sequence 2534, Ap
c 888	15.4	49.7	3131	6	US-10-750-623-30367	Sequence 30367, A	961	15.2	49.0	201	6	US-10-995-561-2536	Sequence 2536, Ap
c 889	15.4	49.7	3271	6	US-10-750-185-55763	Sequence 55763, A	962	15.2	49.0	201	6	US-10-995-561-2538	Sequence 2538, Ap
c 890	15.4	49.7	3271	6	US-10-750-623-55763	Sequence 55763, A	963	15.2	49.0	201	6	US-10-995-561-2539	Sequence 2539, Ap
c 891	15.4	49.7	3500	7	US-11-085-775-1	Sequence 1, Appl	964	15.2	49.0	201	6	US-10-995-561-2571	Sequence 2571, Ap
c 892	15.4	49.7	3513	7	US-11-136-527-3861	Sequence 3861, App	965	15.2	49.0	201	6	US-10-995-561-2622	Sequence 2622, Ap
c 893	15.4	49.7	3623	6	US-10-750-185-60573	Sequence 60573, A	966	15.2	49.0	201	6	US-10-995-561-2623	Sequence 2623, Ap
c 894	15.4	49.7	3623	6	US-10-750-623-60573	Sequence 60573, A	967	15.2	49.0	201	6	US-10-995-561-2625	Sequence 2625, Ap
c 895	15.4	49.7	4035	7	US-11-136-527-3632	Sequence 3632, App	968	15.2	49.0	201	6	US-10-995-561-2627	Sequence 2627, Ap
c 896	15.4	49.7	4167	6	US-10-467-657-333	Sequence 333, App	969	15.2	49.0	201	6	US-10-995-561-2629	Sequence 2629, Ap
c 897	15.4	49.7	4409	7	US-11-136-527-2275	Sequence 2275, App	970	15.2	49.0	201	6	US-10-995-561-2631	Sequence 2631, Ap
c 898	15.4	49.7	4655	6	US-10-750-185-36278	Sequence 36278, A	971	15.2	49.0	201	6	US-10-995-561-2632	Sequence 2632, Ap
c 899	15.4	49.7	4655	6	US-10-750-623-36278	Sequence 36278, A	972	15.2	49.0	201	6	US-10-995-561-2664	Sequence 2664, Ap


```
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 47793
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Bovine 19866880489560
US-10-750-623-47793

Query Match          59.4%; Score 18.4; DB 6; Length 1327;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db 431 GGCTGGCTGAAGCAATGCAAGGATGT 458

RESULT 5
US-10-750-185-32785/c
; Sequence 32785, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 32785
; LENGTH: 1572
; TYPE: DNA
; ORGANISM: Bovine 19866880489560
US-10-750-185-32785

Query Match          59.4%; Score 18.4; DB 6; Length 1572;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db 1497 GACTGCTGGCTGAGCTTGCAAGTAT 1470

RESULT 6
US-10-750-623-32785/c
; Sequence 32785, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
US-10-750-623-32785

Query Match          59.4%; Score 18.4; DB 6; Length 1572;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db 1497 GACTGCTGGCTGAGCTTGCAAGTAT 1470

RESULT 7
US-10-995-561-13495
; Sequence 13495, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13495
; LENGTH: 195235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13495

Query Match          59.4%; Score 18.4; DB 6; Length 195235;
Best Local Similarity 78.6%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db 157805 GTCTGCTGCTGCCCTTGCTGGATCT 157832

RESULT 8
US-10-750-185-44402/c
; Sequence 44402, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
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; SEQ ID NO 44402
; LENGTH: 773
; TYPE: DNA
; ORGANISM: Bovine 19866881828934
US-10-750-185-44402

Query Match      58.7%; Score 18.2; DB 6; Length 773;
Best Local Similarity 74.2%; Pred. No. 1.1e+02;
Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGGCTGTCTGGCTGGCTTGCAGGATGT 31
Db 499 GGGGGCTGGCTGGCTGTGTCTGCAACATCT 469

RESULT 9
US-10-750-623-44402/c
; Sequence 44402, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 44402
; LENGTH: 773
; TYPE: DNA
; ORGANISM: Bovine 19866881828934
US-10-750-623-44402

Query Match      58.7%; Score 18.2; DB 6; Length 773;
Best Local Similarity 74.2%; Pred. No. 1.1e+02;
Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGGCTGTCTGGCTGGCTTGCAGGATGT 31
Db 499 GGGGGCTGGCTGGCTGTGTCTGCAACATCT 469

RESULT 10
US-10-995-561-58109/c
; Sequence 58109, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58109
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-58109

Query Match      58.1%; Score 18; DB 6; Length 201;
Best Local Similarity 80.8%; Pred. No. 1.2e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGTCTGTCTGGCTTGCAGGATG 30
Db 198 TCTGTCTGTCTGGCTTGCAGGATG 173

RESULT 11
US-10-995-561-58205/c
; Sequence 58205, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58205
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-58205

Query Match      58.1%; Score 18; DB 6; Length 201;
Best Local Similarity 80.8%; Pred. No. 1.2e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGTCTGTCTGGCTTGCAGGATG 30
Db 31 TCTGTCTGTCTGGCTTGCAGGATG 6

RESULT 12
US-10-750-185-40079
; Sequence 40079, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 40079
; LENGTH: 642
; TYPE: DNA
; ORGANISM: Bovine 19866881435450
US-10-750-185-40079

Query Match      58.1%; Score 18; DB 6; Length 642;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGTCTGTCTGGCTTGCAGGATG 30
Db 420 TCTGGCTAGCTGGCTGCCAAGGAG 445

RESULT 13
US-10-750-623-40079
; Sequence 40079, Application US/10750623

```

; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 40079
; LENGTH: 642
; TYPE: DNA
; ORGANISM: Bovine 19866881435450
US-10-750-623-40079

Query Match 58.1%; Score 18; DB 6; Length 642;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 5 TCTGCTGGCTGGGCTTGCAAGGATG 30
Db 420 TCTGGCTAGCTGGGCTGCCAAGGAG 445

RESULT 14
US-10-750-185-28909
; Sequence 28909, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 28909
; LENGTH: 1067
; TYPE: DNA
; ORGANISM: Bovine 19866880678691
US-10-750-185-28909

Query Match 58.1%; Score 18; DB 6; Length 1067;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 6 CTGCTGGCTGGGCTTGCAAGGATGT 31
Db 987 CTGAATGGCTGTGCTTCCAGGATGT 1012

RESULT 15
US-10-750-623-28909
; Sequence 28909, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 28909
; LENGTH: 1067
; TYPE: DNA
; ORGANISM: Bovine 19866880678691
US-10-750-623-28909

Query Match 58.1%; Score 18; DB 6; Length 1067;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 6 CTGCTGGCTGGGCTTGCAAGGATGT 31
Db 987 CTGAATGGCTGTGCTTCCAGGATGT 1012

RESULT 16
US-10-750-185-64490
; Sequence 64490, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 64490
; LENGTH: 1168
; TYPE: DNA
; ORGANISM: Bovine 19866881187056
US-10-750-185-64490

Query Match 58.1%; Score 18; DB 6; Length 1168;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 6 CTGCTGGCTGGGCTTGCAAGGATGT 31
Db 1010 CTGCTGGGAGAGATTTCGAAGGCTGT 1035

RESULT 17
US-10-750-623-64490
; Sequence 64490, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David

```

; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64490
; LENGTH: 1168
; TYPE: DNA
; ORGANISM: Bovine 19866881187056
US-10-750-623-64490

Query Match      58.1%; Score 18; DB 6; Length 1168;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      6 CTGCTCGCTGGGCTTGCAGGATGT 31
        ||||| ||||| ||||| ||||| |||||
Db     1010 CTGCTCGGAGAGTTTGCAGGCTGT 1035

RESULT 18
US-10-821-234-234/c
; Sequence 234, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 234
; LENGTH: 2058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-234

Query Match      58.1%; Score 18; DB 6; Length 2058;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      1 GGGGTCTGCTGTGGCTTGGCTTGCAG 26
        ||| |||| |||| |||| |||| ||||
Db     445 GGGACCTTCGGGCTTGGCTTCCAG 420

RESULT 19
US-10-995-561-13438/c
; Sequence 13438, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13438

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RESULT 22
US-11-121-086-59
; Sequence 59, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; PRIOR FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 162537
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-59

Query Match      58.1%; Score 18; DB 7; Length 162537;
Best Local Similarity 80.8%; Pred. No. 1.7e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      3  GGTCGTCTGGCTGGGCTTGCAGGA 28
Db      78403  GGTCGTCTGGCTGGTGTTCACAAAGA 78428

RESULT 23
US-11-121-086-37/c
; Sequence 37, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; PRIOR FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 184000
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-37

Query Match      58.1%; Score 18; DB 7; Length 184000;
Best Local Similarity 80.8%; Pred. No. 1.7e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      6  CTCTCTGGCTGGCTTGCAGGATGT 31
Db      133430  CTGTGTAGCTGGGATTACAGCATGT 133405

RESULT 24
US-10-750-185-53536/c
; Sequence 53536, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
```

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; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53536
; LENGTH: 826
; TYPE: DNA
; ORGANISM: Bovine 19866881923862
US-10-750-185-53536

Query Match      57.4%; Score 17.8; DB 6; Length 826;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1  GGGGTCTGTCTGGCTGGGCTTGCAGGAT 29
Db      39  GGCTTCAGTTGGCTGGTGTTCATGGAT 11

RESULT 25
US-10-750-623-53536/c
; Sequence 53536, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53536
; LENGTH: 826
; TYPE: DNA
; ORGANISM: Bovine 19866881923862
US-10-750-623-53536

Query Match      57.4%; Score 17.8; DB 6; Length 826;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1  GGGGTCTGTCTGGCTGGGCTTGCAGGAT 29
Db      39  GGCTTCAGTTGGCTGGTGTTCATGGAT 11

RESULT 26
US-10-750-185-42836/c
; Sequence 42836, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
```

```
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 42836
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Bovine 19866881341053
US-10-750-185-42836

Query Match          57.4%; Score 17.8; DB 6; Length 1012;
Best Local Similarity 90.5%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 TGGCTGGGCTTGCAAGGATGT 31
      ||||| ||||| ||||| |||||
Db 34 TGGCTGGGTTTCAGGATGT 14

RESULT 27
US-10-750-623-42836/c
; Sequence 42836, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 42836
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Bovine 19866881341053
US-10-750-623-42836

Query Match          57.4%; Score 17.8; DB 6; Length 1012;
Best Local Similarity 90.5%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 TGGCTGGGCTTGCAAGGATGT 31
      ||||| ||||| ||||| |||||
Db 34 TGGCTGGGTTTCAGGATGT 14

RESULT 28
US-10-750-185-33049/c
; Sequence 33049, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880694854
US-10-750-623-33049

Query Match          57.4%; Score 17.8; DB 6; Length 1408;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGCTGCTGGCTGGCTTGCAAGGATG 30
      ||||| ||||| ||||| ||||| |||||
Db 250 GTGACTGTGAGGATGTGCTTGGAAAGATG 222

RESULT 29
US-10-750-623-33049/c
; Sequence 33049, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 33049
; LENGTH: 1408
; TYPE: DNA
; ORGANISM: Bovine 19866880694854
US-10-750-623-33049

Query Match          57.4%; Score 17.8; DB 6; Length 1408;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGCTGCTGGCTGGCTTGCAAGGATG 30
      ||||| ||||| ||||| ||||| |||||
Db 250 GTGACTGTGAGGATGTGCTTGGAAAGATG 222

RESULT 30
US-10-750-185-43064
; Sequence 43064, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880694854
US-10-750-623-33049

Query Match          57.4%; Score 17.8; DB 6; Length 1408;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGCTGCTGGCTGGCTTGCAAGGATG 30
      ||||| ||||| ||||| ||||| |||||
Db 250 GTGACTGTGAGGATGTGCTTGGAAAGATG 222
```

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; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-185-43064

Query Match          57.4%; Score 17.8; DB 6; Length 1567;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGGCTTGCAGGATG 30
   ||||| ||||| ||||| ||||| |||||
Db 1091 GGGTGTCTGTGGCTGGCAATCAGGAGG 1119

RESULT 31
US-10-750-623-43064
; Sequence 43064, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750, 623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-623-43064

Query Match          57.4%; Score 17.8; DB 6; Length 1567;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGGCTTGCAGGATG 30
   ||||| ||||| ||||| ||||| |||||
Db 1091 GGGTGTCTGTGGCTGGCAATCAGGAGG 1119

RESULT 32
US-11-121-086-17/c
; Sequence 17, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 178877
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-17

Query Match          57.4%; Score 17.8; DB 7; Length 178877;
Best Local Similarity 75.9%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY 3 GGTCTGTCTGGCTGGCTTGCAGGATGT 31
   ||||| ||||| ||||| ||||| |||||
Db 113943 GGTCACTCTGTGTGGCTTTGAAGGTTGT 113915

RESULT 33
US-11-121-086-58/c
; Sequence 58, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
; LENGTH: 180654
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-58

Query Match          57.4%; Score 17.8; DB 7; Length 180654;
Best Local Similarity 75.9%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTTGCAGGAT 29
   ||||| ||||| ||||| ||||| |||||
Db 72787 GTGGTCTGGCGCTGGGCTCGTAGGTT 72759

RESULT 34
US-10-995-561-13473/c
; Sequence 13473, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13473
; LENGTH: 394468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(394468)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-2)
US-10-995-561-13473

Query Match          57.4%; Score 17.8; DB 6; Length 394468;
Best Local Similarity 75.9%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGGCTTGCAGGATG 30
   ||||| ||||| ||||| ||||| |||||
Db 46777 GGGTCTGAATGATGGGATTGAAGGAGG 46749

RESULT 35
US-10-750-185-33611
; Sequence 33611, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
```

```
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 33611
; LENGTH: 1409
; TYPE: DNA
; ORGANISM: Bovine 19866880395287
US-10-750-185-33611

Query Match          56.8%; Score 17.6; DB 6; Length 1409;
Best Local Similarity 83.3%; Pred. No. 1.9e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGGCTTGCAAGGA 28
   ||||| ||||| ||||| ||||| |||||
Db 1168 TCTTCTTACTGGCCTTGCAAGGA 1191

RESULT 36
US-10-750-623-33611
; Sequence 33611, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 33611
; LENGTH: 1409
; TYPE: DNA
; ORGANISM: Bovine 19866880395287
US-10-750-623-33611

Query Match          56.8%; Score 17.6; DB 6; Length 1409;
Best Local Similarity 83.3%; Pred. No. 1.9e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGGCTTGCAAGGA 28
   ||||| ||||| ||||| ||||| |||||
Db 1168 TCTTCTTACTGGCCTTGCAAGGA 1191

RESULT 37
US-10-750-185-31181
; Sequence 31181, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
```

```
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 31181
; LENGTH: 5239
; TYPE: DNA
; ORGANISM: Bovine 19866880906721
US-10-750-185-31181

Query Match          56.8%; Score 17.6; DB 6; Length 5239;
Best Local Similarity 83.3%; Pred. No. 2.1e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGGCTTGCAAGGAT 29
   ||||| ||||| ||||| ||||| |||||
Db 1487 CTGCTGGCTTGCCCTCCAGGGAT 1510

RESULT 38
US-10-750-623-31181
; Sequence 31181, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 31181
; LENGTH: 5239
; TYPE: DNA
; ORGANISM: Bovine 19866880906721
US-10-750-623-31181

Query Match          56.8%; Score 17.6; DB 6; Length 5239;
Best Local Similarity 83.3%; Pred. No. 2.1e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGGCTTGCAAGGAT 29
   ||||| ||||| ||||| ||||| |||||
Db 1487 CTGCTGGCTTGCCCTCCAGGGAT 1510

RESULT 39
US-10-995-561-13513/c
; Sequence 13513, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
```


; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13513
; LENGTH: 40000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(40000)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13513

Query Match 56.1%; Score 17.6; DB 6; Length 40000;
Best Local Similarity 76.9%; Pred. No. 2.3e+02;
Matches 20; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 GGCTCTCTGGCTGGCTTGCAGG 27
|||||

Db 18813 GGCCCTGTTGCTTGGCTGCAAGG 18788
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RESULT 40

US-10-750-185-59925
; Sequence 59925, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59925
; LENGTH: 869
; TYPE: DNA
; ORGANISM: Bovine 19866881505414
US-10-750-185-59925

Query Match 56.1%; Score 17.4; DB 6; Length 869;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGCTCTCTGGCTGGCTTGCAGGAT 29
|||||

Db 790 GGCTCTCTGCTGGGCATCCAGGAT 816
|||||

RESULT 41

US-10-750-623-59925
; Sequence 59925, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31

; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59925
; LENGTH: 869
; TYPE: DNA
; ORGANISM: Bovine 19866881505414
US-10-750-623-59925

Query Match 56.1%; Score 17.4; DB 6; Length 869;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGCTCTCTGGCTGGCTTGCAGGAT 29
|||||

Db 790 GGCTCTCTGCTGGGCATCCAGGAT 816
|||||

RESULT 42

US-10-750-185-34220
; Sequence 34220, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34220
; LENGTH: 1285
; TYPE: DNA
; ORGANISM: Bovine 19866880632281
US-10-750-185-34220

Query Match 56.1%; Score 17.4; DB 6; Length 1285;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCCTCTGGCTGGCTTGCAGGATG 30
|||||

Db 995 GGCTGCTGCTGCTGCTTCCAGGAGG 1021
|||||

RESULT 43

US-10-750-623-34220
; Sequence 34220, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922

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/ SOFTWARE: PatentIN version 3.1
/ SEQ ID NO 34220
/ LENGTH: 1285
/ TYPE: DNA
/ ORGANISM: Bovine 19866880632281
US-10-750-623-34220

Query Match          56.1%; Score 17.4; DB 6; Length 1285;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTGGCTGCAAGATG 30
Db 995 GGCTGGCTGGCTGGCTGGCTTTCAGGAGG 1021

RESULT 44
US-10-750-185-40086
/ Sequence 40086, Application US/10750185
/ Publication No. US20050260603A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIN version 3.1
/ SEQ ID NO 40086
/ LENGTH: 2008
/ TYPE: DNA
/ ORGANISM: Bovine 19866880785382
US-10-750-185-40086

Query Match          56.1%; Score 17.4; DB 6; Length 2008;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGGCTGGCTGCAAGG 27
Db 407 GGAACCTGCTGGCTGGCTGGTGATGATGG 433

RESULT 45
US-10-750-623-40086
/ Sequence 40086, Application US/10750623
/ Publication No. US20050287531A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-1
/ CURRENT APPLICATION NUMBER: US/10750,623
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIN version 3.1
/ SEQ ID NO 40086
/ LENGTH: 2008
/ TYPE: DNA
/ ORGANISM: Bovine 19866880785382
US-10-750-623-40086

Query Match          56.1%; Score 17.4; DB 6; Length 2008;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGGCTGGCTGCAAGG 27
Db 407 GGAACCTGCTGGCTGGCTGGTGATGATGG 433

RESULT 46
US-11-124-368A-2896/c
/ Sequence 2896, Application US/11124368A
/ Publication No. US20050287559A1
/ GENERAL INFORMATION:
/ APPLICANT: Michele Cargill
/ APPLICANT: James J. Devlin
/ APPLICANT: May Luke
/ TITLE OF INVENTION: Genetic Polymorphisms Associated with
/ TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
/ FILE REFERENCE: CL001524
/ CURRENT APPLICATION NUMBER: US/11/124,368A
/ CURRENT FILING DATE: 2005-05-09
/ PRIOR APPLICATION NUMBER: US 60/568,845
/ PRIOR FILING DATE: 2004-05-07
/ PRIOR APPLICATION NUMBER: US 60/625,936
/ PRIOR FILING DATE: 2004-11-09
/ NUMBER OF SEQ ID NOS: 21112
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 2896
/ LENGTH: 91561
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,
/ LOCATION: 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31,
/ LOCATION: 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45,
/ LOCATION: 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59,
/ LOCATION: 60
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75,
/ LOCATION: 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103,
/ LOCATION: 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126,
/ LOCATION: 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138,
/ LOCATION: 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150,
/ LOCATION: 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173,
/ LOCATION: 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185,
/ LOCATION: 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197,
/ LOCATION: 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220,
/ LOCATION: 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232,
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/ LOCATION: 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
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; NAME/KEY: misc.feature
; LOCATION: 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267,
; LOCATION: 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279,
; LOCATION: 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291,
; LOCATION: 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302
; OTHER INFORMATION: n = A,T,C or G
US-11-124-368A-2896

Query Match          56.1%; Score 17.4; DB 7; Length 91561;
Best Local Similarity 77.8%; Pred. No. 2.9e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGGCTTGCAGGA 28
Db 46525 GGTTCGTCTGTCTGGCTTGCAGGA 46499

RESULT 47
US-10-995-561-13234/c
; Sequence 37203, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13234
; LENGTH: 93112
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(93112)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13234

Query Match          56.1%; Score 17.4; DB 6; Length 93112;
Best Local Similarity 77.8%; Pred. No. 2.9e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGGCTTGCAGGA 28
Db 47311 GGTTCGTCTGTCTGGCTTGCAGGA 47285

RESULT 48
US-11-121-086-96/c
; Sequence 96, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 96
; LENGTH: 139054
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-96

Query Match          56.1%; Score 17.4; DB 7; Length 139054;
Best Local Similarity 77.8%; Pred. No. 2.9e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 5 TCTGTCTGGCTGGCTTGCAGGATGT 31
Db 92960 TCTGCCAGACTGGTCTCTGGGAAGGATGT 92934

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

RESULT 49
US-10-995-561-37203/c
; Sequence 37203, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37203
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-37203

Query Match          55.5%; Score 17.2; DB 6; Length 201;
Best Local Similarity 73.3%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTTGCAGGATG 30
Db 186 GGAGAGGGGCTGCAGGCTCTTGGGAAGGATG 157

RESULT 50
US-10-995-561-37234/c
; Sequence 37234, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37234
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-37234

Query Match          55.5%; Score 17.2; DB 6; Length 201;
Best Local Similarity 73.3%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTTGCAGGATG 30
Db 85 GGAGAGGGGCTGCAGGCTCTTGGGAAGGATG 56

Search completed: January 11, 2006, 05:11:50
Job time : 679.707 secs
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 87.6768 Seconds
(without alignments)
628.495 Million cell updates/sec

Title: US-09-869-169C-19_COPY_1180_1210

Perfect score: 31

Sequence: 1 gctgagctgcagccaccctcttctccag 31

Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PTUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	31	100.0	1254	3	US-10-085-612A-4
2	31	100.0	10394	3	US-09-949-016-14433
3	26.2	84.5	34172	3	US-09-949-016-14432
C 4	24.6	79.4	601	3	US-09-949-016-20240
C 5	24.6	79.4	601	3	US-09-949-016-42446
6	24.6	79.4	1345	3	US-09-372-339-1
7	24.6	79.4	1345	3	US-09-372-339-2
8	24.6	79.4	1345	3	US-09-144-367-3
9	24.6	79.4	1345	3	US-10-085-612A-3
10	24.6	79.4	31197	3	US-09-949-016-12963
11	24.6	79.4	35803	3	US-09-949-016-11863
12	24.6	79.4	35804	3	US-09-949-016-12962
C 13	23.6	76.1	795	3	US-09-795-926-47
C 14	23.6	76.1	795	3	US-10-364-774-47
C 15	23	74.2	1588	3	US-09-490-291-7
C 16	23	74.2	1852	3	US-09-969-852-4
C 17	23	74.2	2338	2	US-08-425-069-1
C 18	23	74.2	2338	2	US-08-317-844B-1
19	23	74.2	53394	3	US-09-949-016-15817
20	23	74.2	53394	3	US-09-949-016-15818
21	23	74.2	53394	3	US-09-949-016-15819
22	23	74.2	53394	3	US-09-949-016-15820
C 23	22.8	73.5	615	3	US-09-502-540-7688
C 24	22.8	73.5	5552	3	US-09-902-540-759

25	22.2	71.6	3246	3	US-09-270-767-13706	Sequence 13706, A
26	22	71.0	22	3	US-10-085-612A-23	Sequence 23, Appl
27	22	71.0	601	3	US-09-949-016-27173	Sequence 27173, A
28	22	71.0	601	3	US-09-949-016-182371	Sequence 182371, A
C 29	22	71.0	3098	3	US-09-949-016-4028	Sequence 4028, Ap
30	22	71.0	84525	3	US-09-949-016-16678	Sequence 16678, A
31	22	71.0	97195	3	US-09-949-016-12212	Sequence 12212, A
32	22	71.0	97196	3	US-09-949-016-16971	Sequence 16971, A
C 33	22	71.0	211049	3	US-09-949-016-15770	Sequence 15770, A
C 34	21.6	69.7	601	3	US-09-949-016-188534	Sequence 188534, A
35	21.6	69.7	23394	3	US-09-949-016-17131	Sequence 17131, A
36	21.6	69.7	185765	3	US-09-949-002-674	Sequence 674, App
37	21.6	69.7	185766	3	US-09-949-002-707	Sequence 707, App
C 38	21.4	69.0	144	2	US-08-209-747-13	Sequence 13, Appl
C 39	21.4	69.0	144	2	US-08-458-298-13	Sequence 13, Appl
C 40	21.4	69.0	522	3	US-09-248-796A-11526	Sequence 11526, A
C 41	21.4	69.0	746	3	US-09-775-398-81	Sequence 81, Appl
C 42	21.4	69.0	1029	3	US-09-543-681A-1007	Sequence 1007, Ap
C 43	21.4	69.0	1728	3	US-09-927-267-3	Sequence 3, Appl
C 44	21.4	69.0	2308	3	US-09-927-267-2	Sequence 2, Appl
C 45	21.4	69.0	2366	3	US-09-799-451-351	Sequence 351, App
C 46	21.4	69.0	2760	3	US-09-270-767-13149	Sequence 13149, A
47	21.4	69.0	2793	2	US-07-646-537B-1	Sequence 1, Appl
C 48	21.4	69.0	13261	3	US-09-949-016-16870	Sequence 16870, A
49	21.4	69.0	767677	3	US-09-949-016-12147	Sequence 12147, A
50	21.2	68.4	1200	3	US-09-598-401C-36	Sequence 36, Appl
51	21.2	68.4	7446	3	US-09-949-016-14388	Sequence 14388, A
52	21.2	68.4	17629	3	US-09-949-016-11788	Sequence 11788, A
53	21.2	67.7	54	2	US-07-941-651-3	Sequence 3, Appl
C 54	21	67.7	54	2	US-08-279-996-3	Sequence 3, Appl
C 55	21	67.7	300	3	US-09-135-994-3	Sequence 3, Appl
C 56	21	67.7	300	3	US-09-684-843A-3	Sequence 3, Appl
C 57	21	67.7	521	3	US-09-404-879A-34	Sequence 34, Appl
C 58	21	67.7	521	3	US-09-338-933-34	Sequence 34, Appl
C 59	21	67.7	521	3	US-09-215-681-34	Sequence 34, Appl
C 60	21	67.7	521	3	US-09-216-003A-34	Sequence 34, Appl
C 61	21	67.7	521	3	US-10-198-053-34	Sequence 34, Appl
C 62	21	67.7	521	3	US-09-667-857-34	Sequence 34, Appl
C 63	21	67.7	521	3	US-10-198-053-34	Sequence 34, Appl
C 64	21	67.7	521	3	US-09-827-271-34	Sequence 34, Appl
C 65	21	67.7	1001	3	US-09-641-638-643	Sequence 643, App
C 66	21	67.7	1001	3	US-09-641-638-644	Sequence 644, App
C 67	21	67.7	1001	3	US-09-641-638-645	Sequence 645, App
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C 71	21	67.7	1001	3	US-10-170-097-645	Sequence 645, App
C 72	21	67.7	1001	3	US-10-170-097-646	Sequence 646, App
C 73	21	67.7	1144	3	US-09-270-767-26452	Sequence 26452, A
C 74	21	67.7	1613	3	US-09-270-767-10956	Sequence 10956, A
C 75	21	67.7	1847	3	US-09-774-528-248	Sequence 248, App
C 76	21	67.7	1847	3	US-10-120-988-248	Sequence 248, App
C 77	21	67.7	1847	3	US-07-941-651-1	Sequence 1, Appl
C 78	21	67.7	1934	2	US-08-279-996-1	Sequence 1, Appl
C 79	21	67.7	2335	3	US-09-949-002-20	Sequence 20, Appl
C 80	21	67.7	2343	3	US-09-641-638-652	Sequence 652, App
C 81	21	67.7	2343	3	US-10-170-097-652	Sequence 652, App
C 82	21	67.7	2366	3	US-09-949-002-214	Sequence 214, App
C 83	21	67.7	2469	3	US-09-849-334-1	Sequence 1, Appl
C 84	21	67.7	2469	3	US-10-274-878-1	Sequence 1, Appl
C 85	21	67.7	2469	3	US-10-697-266-1	Sequence 1, Appl
C 86	21	67.7	4678	3	US-09-774-528-341	Sequence 341, App
C 87	21	67.7	4678	3	US-10-120-988-341	Sequence 341, App
C 88	21	67.7	18651	3	US-09-949-002-592	Sequence 592, App
C 89	21	67.7	18682	3	US-09-949-002-786	Sequence 786, App
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C 91	21	67.7	19025	3	US-10-274-878-3	Sequence 3, Appl
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C 93	21	67.7	20674	3	US-09-641-638-651	Sequence 651, App
C 94	21	67.7	20674	3	US-10-170-097-651	Sequence 651, App
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98	20.6	66.5	601	3	US-09-949-016-128136	Sequence 128136, App	171	20.4	65.8	51354	3	US-09-902-540-1270	Sequence 1270, App
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c 108	20.6	66.5	304533	3	US-09-949-016-15372	Sequence 15372, A	c 181	20.2	65.2	3057	3	US-09-949-016-3892	Sequence 3892, App
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c 131	20.4	65.8	601	3	US-09-949-016-188680	Sequence 188680, A	c 204	20	64.5	1105	9	US-08-485-286-3	Patent No. 5248606
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c 138	20.4	65.8	601	3	US-09-949-016-193046	Sequence 193046, A	c 211	20	64.5	1978	3	US-10-104-047-1660	Sequence 1660, App
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c 151	20.4	65.8	2850	3	US-10-074-527-1	Sequence 1, Appli	c 224	20	64.5	203475	3	US-09-949-016-14516	Sequence 14517, A
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c 161	20.4	65.8	34552	3	US-09-902-540-1262	Sequence 1262, App	c 234	19.8	63.9	165	2	US-08-458-298-9	Sequence 9, Appli
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C 279	19.8	63.9	1401	3	US-09-302-540-8208	Sequence 8208, Ap	C 352	19.8	63.9	5265	3	US-09-620-412C-174	Sequence 174, App
C 280	19.8	63.9	1452	3	US-09-538-106-9	Sequence 9, Appli	C 353	19.8	63.9	5265	3	US-09-598-419-174	Sequence 174, App
C 281	19.8	63.9	1503	3	US-09-797-039-3	Sequence 3, Appli	C 354	19.8	63.9	5265	3	US-09-598-419-174	Sequence 174, App
C 282	19.8	63.9	1556	3	US-10-104-047-779	Sequence 779, App	C 355	19.8	63.9	5788	3	US-09-949-016-12498	Sequence 12498, A
C 283	19.8	63.9	1572	3	US-09-302-540-5767	Sequence 5767, Ap	C 356	19.8	63.9	5788	3	US-09-949-016-14458	Sequence 14458, A
C 284	19.8	63.9	1578	3	US-09-252-991A-5039	Sequence 5039, Ap	C 357	19.8	63.9	5870	3	US-09-949-016-15247	Sequence 15247, A
C 285	19.8	63.9	1581	3	US-09-352-991A-5177	Sequence 5177, Ap	C 358	19.8	63.9	6188	3	US-09-702-705-1823	Sequence 1823, Ap
C 286	19.8	63.9	1668	3	US-09-538-106-8	Sequence 8, Appli	C 359	19.8	63.9	6188	3	US-09-736-457-1823	Sequence 1823, Ap
C 287	19.8	63.9	1755	3	US-09-949-016-2716	Sequence 2716, Ap	C 360	19.8	63.9	6188	3	US-09-671-325-1823	Sequence 1823, Ap
C 288	19.8	63.9	1758	3	US-09-949-016-756	Sequence 756, App	C 361	19.8	63.9	6463	3	US-09-332-063-1	Sequence 1, Appli
C 289	19.8	63.9	1761	3	US-09-538-106-10	Sequence 10, Appl	C 362	19.8	63.9	6582	3	US-09-631-863A-1	Sequence 1, Appli
C 290	19.8	63.9	1825	3	US-10-104-047-1618	Sequence 1618, Ap	C 363	19.8	63.9	7255	3	US-09-949-016-14889	Sequence 14889, A
C 291	19.8	63.9	1885	3	US-09-023-655-1162	Sequence 1162, Ap	C 364	19.8	63.9	7255	3	US-09-734-030-3	Sequence 3, Appli
C 292	19.8	63.9	1965	3	US-09-620-412C-340	Sequence 340, App	C 365	19.8	63.9	7542	3	US-10-153-921-3	Sequence 3, Appli
C 293	19.8	63.9	1965	3	US-09-598-419-340	Sequence 340, App	C 366	19.8	63.9	7542	3	US-10-669-689-3	Sequence 3, Appli
C 294	19.8	63.9	1989	3	US-09-270-767-30237	Sequence 30237, A	C 367	19.8	63.9	8426	3	US-09-949-016-13202	Sequence 13202, A
C 295	19.8	63.9	2043	3	US-09-538-106-7	Sequence 7, Appli	C 368	19.8	63.9	8604	3	US-09-902-540-5331	Sequence 5331, Ap
C 296	19.8	63.9	2096	3	US-10-051-989A-9	Sequence 9, Appli	C 369	19.8	63.9	10092	3	US-09-902-540-994	Sequence 994, App
C 297	19.8	63.9	2096	3	US-09-861-012A-9	Sequence 9, Appli	C 370	19.8	63.9	17503	3	US-09-902-540-1114	Sequence 1114, App
C 298	19.8	63.9	2096	3	US-09-861-098A-9	Sequence 9, Appli	C 371	19.8	63.9	17599	3	US-09-949-016-15331	Sequence 15331, A
C 299	19.8	63.9	2096	6	PCT-US94-08119-9	Sequence 9, Appli	C 372	19.8	63.9	19954	3	US-09-902-540-1150	Sequence 1150, Ap
C 300	19.8	63.9	2096	6	PCT-US94-08120-9	Sequence 9, Appli	C 373	19.8	63.9	20481	3	US-09-949-016-12093	Sequence 12093, A
C 301	19.8	63.9	2096	6	PCT-US94-12913A-9	Sequence 9, Appli	C 374	19.8	63.9	20482	3	US-09-949-016-13660	Sequence 13660, A
C 302	19.8	63.9	2099	2	US-08-094-533B-9	Sequence 9, Appli	C 375	19.8	63.9	22368	3	US-09-949-016-15418	Sequence 15418, A
C 303	19.8	63.9	2099	2	US-08-276-860A-9	Sequence 9, Appli	C 376	19.8	63.9	23738	3	US-09-902-540-1203	Sequence 1203, Ap
C 304	19.8	63.9	2099	2	US-08-444-393-9	Sequence 9, Appli	C 377	19.8	63.9	35399	3	US-09-902-540-1260	Sequence 1260, Ap
C 305	19.8	63.9	2099	2	US-08-799-913-9	Sequence 9, Appli	C 378	19.8	63.9	37204	3	US-09-902-540-1273	Sequence 1273, Ap
C 306	19.8	63.9	2099	2	US-08-711-893-9	Sequence 9, Appli	C 379	19.8	63.9	93532	3	US-09-949-016-15944	Sequence 15944, A
C 307	19.8	63.9	2099	2	US-09-150-200-9	Sequence 9, Appli	C 380	19.8	63.9	134890	3	US-09-949-016-15602	Sequence 15602, A
C 308	19.8	63.9	2099	3	US-09-452-370-9	Sequence 9, Appli	C 381	19.8	63.9	137753	3	US-09-949-016-17404	Sequence 17404, A
C 309	19.8	63.9	2099	3	US-09-461-649-9	Sequence 9, Appli	C 382	19.8	63.9	389504	3	US-09-949-016-11774	Sequence 11774, A
C 310	19.8	63.9	2099	3	US-08-220-602B-9	Sequence 9, Appli	C 383	19.6	63.2	297	2	US-08-209-747-3	Sequence 3, Appli
C 311	19.8	63.9	2099	3	US-09-861-097-9	Sequence 9, Appli	C 384	19.6	63.2	309	2	US-08-458-298-3	Sequence 3, Appli
C 312	19.8	63.9	2099	3	US-10-104-047-904	Sequence 904, App	C 385	19.6	63.2	1279	3	US-09-248-335-25	Sequence 25, Appl
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C 314	19.8	63.9	2139	3	US-09-919-039-186	Sequence 186, App	C 387	19.6	63.2	5063	3	US-09-949-016-1375	Sequence 1375, Ap
C 315	19.8	63.9	2205	3	US-09-902-540-4101	Sequence 4101, App	C 388	19.6	63.2	8773	3	US-09-902-540-965	Sequence 965, App
C 316	19.8	63.9	2205	3			C 389	19.6	63.2				

C 390	19.6	63.2	57978	3	US-09-949-016-16667	Sequence 16667, A	C 463	19.4	62.6	14136	3	US-10-083-246A-1	Sequence 1, Appli
C 391	19.6	63.2	141115	3	US-09-949-016-17490	Sequence 17490, A	C 464	19.4	62.6	14148	3	US-09-052-469-7	Sequence 7, Appli
C 392	19.4	62.6	21	3	US-10-085-612A-24	Sequence 24, Appl	C 465	19.4	62.6	14148	3	US-08-422-582-7	Sequence 7, Appli
C 393	19.4	62.6	60	2	US-08-372-652-15	Sequence 15, Appl	C 466	19.4	62.6	14148	3	US-09-052-262-7	Sequence 7, Appli
C 394	19.4	62.6	60	6	PCT-US95-16311-15	Sequence 15, Appl	C 467	19.4	62.6	15945	3	US-09-949-016-17271	Sequence 17271, A
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C 397	19.4	62.6	68	2	US-08-477-509B-58	Sequence 58, Appl	C 470	19.4	62.6	21000	3	US-09-975-123-11	Sequence 11, Appl
C 398	19.4	62.6	68	2	US-08-707-237A-29	Sequence 29, Appl	C 471	19.4	62.6	22339	3	US-09-949-016-12411	Sequence 12411, A
C 399	19.4	62.6	68	3	US-08-482-085B-58	Sequence 58, Appl	C 472	19.4	62.6	22339	3	US-09-949-016-16154	Sequence 16154, A
C 400	19.4	62.6	68	3	US-08-475-411A-25	Sequence 25, Appl	C 473	19.4	62.6	22908	3	Sequence 17255, A	
C 401	19.4	62.6	68	3	US-08-478-029A-25	Sequence 25, Appl	C 474	19.4	62.6	30360	3	Sequence 15716, A	
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C 403	19.4	62.6	222	2	US-07-609-716-64	Sequence 64, Appl	C 476	19.4	62.6	31491	3	Sequence 1, Appli	
C 404	19.4	62.6	222	2	US-08-089-862-4	Sequence 4, Appli	C 477	19.4	62.6	31571	2	Sequence 1261, Ap	
C 405	19.4	62.6	222	2	US-08-587-333-11	Sequence 11, Appl	C 478	19.4	62.6	34662	3	Sequence 785, App	
C 406	19.4	62.6	222	3	US-08-475-411A-64	Sequence 64, Appl	C 479	19.4	62.6	47741	3	Sequence 2, Appli	
C 407	19.4	62.6	222	3	US-08-478-029A-64	Sequence 64, Appl	C 480	19.4	62.6	53526	3	Sequence 1, Appli	
C 408	19.4	62.6	222	3	US-09-248-796A-8624	Sequence 8624, Ap	C 481	19.4	62.6	53577	3	Sequence 1, Appli	
C 409	19.4	62.6	222	6	PCT-US94-07776-9	Sequence 9, Appli	C 482	19.4	62.6	53577	3	Sequence 1261, Ap	
C 410	19.4	62.6	415	3	US-09-270-767-168	Sequence 168, App	C 483	19.4	62.6	71574	3	Sequence 15580, A	
C 411	19.4	62.6	415	3	US-09-270-767-15450	Sequence 15450, A	C 484	19.4	62.6	87870	3	Sequence 14461, A	
C 412	19.4	62.6	455	3	US-09-270-767-307	Sequence 307, App	C 485	19.4	62.6	247781	3	Sequence 14193, A	
C 413	19.4	62.6	455	3	US-09-270-767-15589	Sequence 15589, A	C 486	19.2	61.9	601	3	Sequence 183127	
C 414	19.4	62.6	457	3	US-09-270-767-2572	Sequence 2572, Ap	C 487	19.2	61.9	601	3	Sequence 183128	
C 415	19.4	62.6	457	3	US-09-270-767-17854	Sequence 17854, A	C 488	19.2	61.9	1206	3	Sequence 5866, Ap	
C 416	19.4	62.6	457	3	US-09-248-796A-5721	Sequence 5721, Ap	C 489	19.2	61.9	1740	3	Sequence 1, Appli	
C 417	19.4	62.6	477	3	US-09-949-016-140402	Sequence 140402, A	C 490	19.2	61.9	2903	3	Sequence 5033, Ap	
C 418	19.4	62.6	601	3	US-09-252-991A-16566	Sequence 16566, A	C 491	19.2	61.9	3334	3	Sequence 2, Appli	
C 419	19.4	62.6	657	3	US-09-252-991A-16566	Sequence 16566, A	C 492	19.2	61.9	8831	3	Sequence 17608, A	
C 420	19.4	62.6	657	3	US-09-252-991A-12003	Sequence 12003, A	C 493	19.2	61.9	8831	3	Sequence 16775, A	
C 421	19.4	62.6	765	3	US-10-101-464A-132	Sequence 132, App	C 494	19.2	61.9	12695	3	Sequence 15722, A	
C 422	19.4	62.6	783	3	US-09-252-991A-15938	Sequence 15938, A	C 495	19.2	61.9	21105	3	Sequence 15722, A	
C 423	19.4	62.6	816	3	US-09-248-796A-8625	Sequence 8625, Ap	C 496	19.2	61.9	72928	3	Sequence 1, Appli	
C 424	19.4	62.6	808	3	US-09-875-076-7	Sequence 7, Appli	C 497	19.2	61.9	89210	3	Sequence 16988, A	
C 425	19.4	62.6	1053	2	US-08-927-307-1	Sequence 1, Appli	C 498	19.2	61.3	67	3	Sequence 65, Appl	
C 426	19.4	62.6	1053	3	US-09-385-947-1	Sequence 1, Appli	C 499	19.2	61.3	362	3	Sequence 17741, A	
C 427	19.4	62.6	1062	3	US-09-902-540-7358	Sequence 7358, Ap	C 500	19.2	61.3	362	3	Sequence 8328, Ap	
C 428	19.4	62.6	1129	3	US-09-387-699-1	Sequence 1, Appli	C 501	19.2	61.3	601	3	Sequence 21137, A	
C 429	19.4	62.6	1305	3	US-09-641-259B-1	Sequence 1, Appli	C 502	19.2	61.3	601	3	Sequence 21138, A	
C 430	19.4	62.6	1398	3	US-09-902-540-5351	Sequence 5351, Ap	C 503	19.2	61.3	601	3	Sequence 21139, A	
C 431	19.4	62.6	1478	3	US-09-270-767-15141	Sequence 15141, A	C 504	19.2	61.3	601	3	Sequence 31097, A	
C 432	19.4	62.6	1505	2	US-07-915-246-1	Sequence 1, Appli	C 505	19.2	61.3	601	3	Sequence 31098, A	
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C 435	19.4	62.6	1956	3	US-09-252-991A-12032	Sequence 12032, A	C 508	19.2	61.3	601	3	Sequence 47507, A	
C 436	19.4	62.6	2028	3	US-09-902-540-7619	Sequence 7619, Ap	C 509	19.2	61.3	601	3	Sequence 141983	
C 437	19.4	62.6	2065	3	US-09-949-016-5529	Sequence 5529, Ap	C 510	19.2	61.3	1179	3	Sequence 141984	
C 438	19.4	62.6	2153	3	US-10-104-047-1510	Sequence 1510, Ap	C 511	19.2	61.3	1179	3	Sequence 22, Appl	
C 439	19.4	62.6	2277	2	US-08-676-967-5	Sequence 5, Appli	C 512	19.2	61.3	1179	3	Sequence 22, Appl	
C 440	19.4	62.6	2277	2	US-08-676-974-5	Sequence 5, Appli	C 513	19.2	61.3	1179	3	Sequence 23, Appl	
C 441	19.4	62.6	2277	2	US-09-098-487-5	Sequence 5, Appli	C 514	19.2	61.3	1191	3	Sequence 4, Appli	
C 442	19.4	62.6	2341	3	US-10-104-047-906	Sequence 906, App	C 515	19.2	61.3	1191	3	Sequence 5, Appli	
C 443	19.4	62.6	2496	3	US-09-799-451-872	Sequence 872, App	C 516	19.2	61.3	1191	3	Sequence 34, Appl	
C 444	19.4	62.6	2728	3	US-09-774-528-96	Sequence 96, Appl	C 517	19.2	61.3	1191	3	Sequence 35, Appl	
C 445	19.4	62.6	2728	3	US-10-120-988-96	Sequence 96, Appl	C 518	19.2	61.3	1191	3	Sequence 4, Appli	
C 446	19.4	62.6	2874	3	US-10-104-047-1915	Sequence 1915, Ap	C 519	19.2	61.3	1191	3	Sequence 5, Appli	
C 447	19.4	62.6	3159	3	US-10-104-047-762	Sequence 762, App	C 520	19.2	61.3	1191	3	Sequence 34, Appl	
C 448	19.4	62.6	3203	3	US-09-949-016-2064	Sequence 2064, Ap	C 521	19.2	61.3	1191	3	Sequence 35, Appl	
C 449	19.4	62.6	3237	3	US-09-566-921-40	Sequence 40, Appl	C 522	19.2	61.3	1191	3	Sequence 28, Appl	
C 450	19.4	62.6	3390	3	US-09-252-991A-11981	Sequence 11981, A	C 523	19.2	61.3	1194	3	Sequence 29, Appl	
C 451	19.4	62.6	5467	3	US-09-902-540-703	Sequence 703, App	C 524	19.2	61.3	1194	3	Sequence 28, Appl	
C 452	19.4	62.6	7850	3	US-09-902-540-749	Sequence 749, App	C 525	19.2	61.3	1194	3	Sequence 29, Appl	
C 453	19.4	62.6	9053	3	US-09-976-594-306	Sequence 306, App	C 526	19.2	61.3	1194	3	Sequence 10, Appl	
C 454	19.4	62.6	9259	3	US-09-949-016-16764	Sequence 16764, A	C 527	19.2	61.3	1197	3	Sequence 11, Appl	
C 455	19.4	62.6	12912	2	US-08-460-751-1	Sequence 1, Appli	C 528	19.2	61.3	1197	3	Sequence 16, Appl	
C 456	19.4	62.6	12912	3	US-09-479-467A-1	Sequence 1, Appli	C 529	19.2	61.3	1197	3	Sequence 17, Appl	
C 457	19.4	62.6	12912	3	US-09-655-160-1	Sequence 5, Appli	C 530	19.2	61.3	1260	3	Sequence 16, Appl	
C 458	19.4	62.6	13807	3	US-09-052-469-5	Sequence 5, Appli	C 531	19.2	61.3	1260	3	Sequence 15, Appl	
C 459	19.4	62.6	13807	3	US-08-422-582-5	Sequence 5, Appli	C 532	19.2	61.3	1260	3	Sequence 17, Appl	
C 460	19.4	62.6	13807	3	US-09-052-262-5	Sequence 5, Appli	C 533	19.2	61.3	1260	3	Sequence 1, Appli	
C 461	19.4	62.6	13941	3	US-09-799-451-341	Sequence 341, App	C 534	19.2	61.3	1269	2	Sequence 1, Appli	
C 462	19.4	62.6	14060	3	US-08-658-136-4	Sequence 4, Appli	C 535	19.2	61.3	1269	2	Sequence 1, Appli	

C 536	19	61.3	1269	3	US-09-436-469-1	Sequence 1, Appli	C 609	18.8	60.6	247	3	US-09-115-453-167	Sequence 167, App
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C 545	19	61.3	1414	3	US-08-745-995A-21	Sequence 21, Appl	C 618	18.8	60.6	294	3	US-09-248-796A-6537	Sequence 6537, Ap
C 546	19	61.3	1414	3	US-09-005-352-19	Sequence 19, Appl	C 619	18.8	60.6	313	3	US-09-513-999C-23843	Sequence 23843, A
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C 548	19	61.3	1454	3	US-08-745-995A-31	Sequence 31, Appl	C 621	18.8	60.6	415	3	US-09-270-767-30904	Sequence 30904, A
C 549	19	61.3	1454	3	US-08-745-995A-33	Sequence 33, Appl	C 622	18.8	60.6	416	3	US-09-270-767-6435	Sequence 6435, Ap
C 550	19	61.3	1454	3	US-09-005-352-31	Sequence 31, Appl	C 623	18.8	60.6	416	3	US-09-270-767-21717	Sequence 21717, A
C 551	19	61.3	1454	3	US-09-005-352-33	Sequence 33, Appl	C 624	18.8	60.6	421	3	US-09-221-298-24	Sequence 24, Appl
C 552	19	61.3	1461	3	US-09-902-540-9641	Sequence 9641, Ap	C 625	18.8	60.6	421	3	US-09-401-064-24	Sequence 24, Appl
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C 555	19	61.3	1492	3	US-09-005-352-25	Sequence 25, Appl	C 628	18.8	60.6	440	3	US-09-270-767-8776	Sequence 8776, Ap
C 556	19	61.3	1492	3	US-09-005-352-27	Sequence 27, Appl	C 629	18.8	60.6	440	3	US-09-270-767-24058	Sequence 24058, A
C 557	19	61.3	1584	3	US-08-745-995A-1	Sequence 1, Appli	C 630	18.8	60.6	452	3	US-09-621-976-3072	Sequence 3072, Ap
C 558	19	61.3	1584	3	US-08-745-995A-3	Sequence 3, Appli	C 631	18.8	60.6	466	3	US-09-513-999C-12117	Sequence 12117, A
C 559	19	61.3	1584	3	US-09-005-352-1	Sequence 1, Appli	C 632	18.8	60.6	471	3	US-09-252-991A-12321	Sequence 12321, A
C 560	19	61.3	1584	3	US-09-005-352-3	Sequence 3, Appli	C 633	18.8	60.6	474	3	US-09-621-976-2182	Sequence 2182, Ap
C 561	19	61.3	1638	3	US-09-801-774-2	Sequence 2, Appli	C 634	18.8	60.6	504	3	US-09-594-506-5	Sequence 5, Appli
C 562	19	61.3	1787	2	US-08-808-982-2	Sequence 2, Appli	C 635	18.8	60.6	504	3	US-09-248-796A-2493	Sequence 2493, Ap
C 563	19	61.3	1787	3	US-09-306-902A-2	Sequence 2, Appli	C 636	18.8	60.6	506	3	US-09-270-767-5595	Sequence 5585, Ap
C 564	19	61.3	1838	3	US-08-745-995A-13	Sequence 13, Appl	C 637	18.8	60.6	506	3	US-09-270-767-20867	Sequence 20867, A
C 565	19	61.3	1838	3	US-08-745-995A-15	Sequence 15, Appl	C 638	18.8	60.6	521	3	US-09-643-597-324	Sequence 324, App
C 566	19	61.3	1838	3	US-09-005-352-13	Sequence 13, Appl	C 639	18.8	60.6	521	3	US-09-480-884A-334	Sequence 324, App
C 567	19	61.3	1838	3	US-09-005-352-15	Sequence 15, Appl	C 640	18.8	60.6	521	3	US-09-542-615A-334	Sequence 324, App
C 568	19	61.3	1863	3	US-09-949-016-5334	Sequence 5334, Ap	C 641	18.8	60.6	521	3	US-09-606-421B-334	Sequence 324, App
C 569	19	61.3	1937	3	US-09-949-016-446	Sequence 446, App	C 642	18.8	60.6	521	3	US-09-630-940B-334	Sequence 324, App
C 570	19	61.3	2116	3	US-10-104-047-1384	Sequence 1384, Ap	C 643	18.8	60.6	521	3	US-10-007-700-324	Sequence 324, App
C 571	19	61.3	2157	3	US-10-104-047-1832	Sequence 1832, Ap	C 644	18.8	60.6	522	3	US-09-248-796A-11526	Sequence 11526, A
C 572	19	61.3	2258	3	US-10-104-047-49	Sequence 49, Appl	C 645	18.8	60.6	525	4	US-09-605-703B-2601	Sequence 2601, Ap
C 573	19	61.3	2528	3	US-09-394-142B-5	Sequence 5, Appli	C 646	18.8	60.6	543	9	5273901-6	Patent No. 5273901
C 574	19	61.3	2534	3	US-09-394-142B-19	Sequence 19, Appl	C 647	18.8	60.6	546	3	US-09-270-767-6775	Sequence 6775, Ap
C 575	19	61.3	2700	3	US-09-902-540-7680	Sequence 7680, Ap	C 648	18.8	60.6	546	3	US-09-270-767-22057	Sequence 22057, Ap
C 576	19	61.3	2900	3	US-09-620-312D-673	Sequence 673, App	C 649	18.8	60.6	575	2	US-08-966-316-9	Sequence 9, Appli
C 577	19	61.3	3376	2	US-08-320-559-29	Sequence 29, Appl	C 650	18.8	60.6	601	3	US-09-949-016-18919	Sequence 18919, A
C 578	19	61.3	3376	3	US-08-545-860D-29	Sequence 29, Appl	C 651	18.8	60.6	601	3	US-09-949-016-26783	Sequence 26783, A
C 579	19	61.3	3376	6	PCT-US94-04496-29	Sequence 29, Appl	C 652	18.8	60.6	601	3	US-09-949-016-28278	Sequence 28278, A
C 580	19	61.3	3731	3	US-10-104-047-335	Sequence 335, App	C 653	18.8	60.6	601	3	US-09-949-016-28279	Sequence 28279, A
C 581	19	61.3	3972	3	US-09-270-767-10571	Sequence 10571, A	C 654	18.8	60.6	601	3	US-09-949-016-28280	Sequence 28280, A
C 582	19	61.3	4808	3	US-09-774-528-19	Sequence 19, Appl	C 655	18.8	60.6	601	3	US-09-949-016-28281	Sequence 28281, A
C 583	19	61.3	4808	3	US-10-120-988-19	Sequence 19, Appl	C 656	18.8	60.6	601	3	US-09-949-016-28282	Sequence 28282, A
C 584	19	61.3	6332	3	US-09-949-016-5117	Sequence 5117, Ap	C 657	18.8	60.6	601	3	US-09-949-016-33323	Sequence 33323, A
C 585	19	61.3	6351	3	US-09-902-540-757	Sequence 757, App	C 658	18.8	60.6	601	3	US-09-949-016-33324	Sequence 33324, A
C 586	19	61.3	9562	3	US-09-949-016-17076	Sequence 17076, A	C 659	18.8	60.6	601	3	US-09-949-016-33325	Sequence 33325, A
C 587	19	61.3	12790	3	US-09-949-016-12188	Sequence 12188, A	C 660	18.8	60.6	601	3	US-09-949-016-33326	Sequence 33326, A
C 588	19	61.3	14862	3	US-09-949-016-14789	Sequence 14789, A	C 661	18.8	60.6	601	3	US-09-949-016-33327	Sequence 33327, A
C 589	19	61.3	15782	3	US-09-902-540-1094	Sequence 1094, Ap	C 662	18.8	60.6	601	3	US-09-949-016-38868	Sequence 38868, A
C 590	19	61.3	31467	3	US-09-949-016-13134	Sequence 13134, A	C 663	18.8	60.6	601	3	US-09-949-016-38869	Sequence 38869, A
C 591	19	61.3	31545	3	US-09-949-016-17219	Sequence 17219, A	C 664	18.8	60.6	601	3	US-09-949-016-38870	Sequence 38870, A
C 592	19	61.3	31868	3	US-09-949-016-11907	Sequence 11907, A	C 665	18.8	60.6	601	3	US-09-949-016-38871	Sequence 38871, A
C 593	19	61.3	43267	3	US-09-949-016-17117	Sequence 17117, A	C 666	18.8	60.6	601	3	US-09-949-016-84160	Sequence 84160, A
C 594	19	61.3	117410	3	US-09-949-016-12262	Sequence 12262, A	C 667	18.8	60.6	601	3	US-09-949-016-88426	Sequence 88426, A
C 595	19	61.3	363032	3	US-09-949-016-12415	Sequence 12415, A	C 668	18.8	60.6	601	3	US-09-949-016-88427	Sequence 88427, A
C 596	19	61.3	363033	3	US-09-949-016-15754	Sequence 15754, A	C 669	18.8	60.6	601	3	US-09-949-016-88428	Sequence 88428, A
C 597	18.8	60.6	90	3	US-08-556-978B-93	Sequence 93, Appl	C 670	18.8	60.6	601	3	US-09-949-016-88429	Sequence 88429, A
C 598	18.8	60.6	90	3	US-08-556-978B-94	Sequence 94, Appl	C 671	18.8	60.6	601	3	US-09-949-016-124770	Sequence 124770, A
C 599	18.8	60.6	139	3	US-09-270-767-25412	Sequence 25412, A	C 672	18.8	60.6	601	3	US-09-949-016-173125	Sequence 173125, A
C 600	18.8	60.6	216	3	US-09-513-999C-14166	Sequence 14166, A	C 673	18.8	60.6	601	3	US-09-949-016-175975	Sequence 175975, A
C 601	18.8	60.6	247	3	US-09-020-956-167	Sequence 167, App	C 674	18.8	60.6	601	3	US-09-949-016-182543	Sequence 182543, A
C 602	18.8	60.6	247	3	US-09-030-607-167	Sequence 167, App	C 675	18.8	60.6	601	3	US-09-949-016-182544	Sequence 182544, A
C 603	18.8	60.6	247	3	US-09-439-313-167	Sequence 167, App	C 676	18.8	60.6	601	3	US-09-949-016-182545	Sequence 182545, A
C 604	18.8	60.6	247	3	US-09-352-616A-167	Sequence 167, App	C 677	18.8	60.6	601	3	US-09-949-016-182546	Sequence 182546, A
C 605	18.8	60.6	247	3	US-09-232-149A-167	Sequence 167, App	C 678	18.8	60.6	601	3	US-09-949-016-182547	Sequence 182547, A
C 606	18.8	60.6	247	3	US-09-159-812-167	Sequence 167, App	C 679	18.8	60.6	601	3	US-09-949-016-182663	Sequence 182663, A
C 607	18.8	60.6	247	3	US-09-636-215-167	Sequence 167, App	C 680	18.8	60.6	601	3	US-09-949-016-182664	Sequence 182664, A
C 608	18.8	60.6	247	3	US-09-685-166A-167	Sequence 167, App	C 681	18.8	60.6	601	3	US-09-949-016-182665	Sequence 182665, A

682	18.8	60.6	601	3	US-09-949-016-182666	Sequence 182666,	C 755	18.8	60.6	2580	3	US-09-050-863-2	Sequence 2, Appli
683	18.8	60.6	601	3	US-09-949-016-182667	Sequence 182667,	C 756	18.8	60.6	2580	3	US-09-359-081-2	Sequence 2, Appli
684	18.8	60.6	601	3	US-09-949-016-183032	Sequence 183032,	C 757	18.8	60.6	2621	3	US-09-949-016-1072	Sequence 1072, Ap
685	18.8	60.6	601	3	US-09-949-002-4568	Sequence 4568, Ap	C 758	18.8	60.6	2624	3	US-10-197-220-149	Sequence 149, App
C 686	18.8	60.6	642	3	US-09-270-767-2699	Sequence 2699, Ap	C 759	18.8	60.6	2769	3	US-09-883-134-8	Sequence 8, Appli
C 687	18.8	60.6	642	3	US-09-270-767-17981	Sequence 17981, A	C 760	18.8	60.6	2769	3	US-10-306-879-8	Sequence 8, Appli
C 688	18.8	60.6	691	3	US-09-270-767-13667	Sequence 13667, A	C 761	18.8	60.6	2796	3	US-09-700-769-7	Sequence 7, Appli
C 689	18.8	60.6	852	3	US-09-902-540-6077	Sequence 6077, A	C 762	18.8	60.6	2797	2	US-09-021-323-2	Sequence 2, Appli
C 690	18.8	60.6	855	3	US-09-248-796A-6536	Sequence 6536, Ap	C 763	18.8	60.6	2815	3	US-09-276-531-127	Sequence 127, App
C 691	18.8	60.6	870	2	US-08-209-747-7	Sequence 7, Appli	C 764	18.8	60.6	2818	3	US-09-751-687-10	Sequence 10, Appl
C 692	18.8	60.6	870	2	US-08-458-298-7	Sequence 7, Appli	C 765	18.8	60.6	2847	3	US-09-556-877-186	Sequence 186, App
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C 694	18.8	60.6	942	3	US-09-270-767-12351	Sequence 12351, A	C 767	18.8	60.6	2847	3	US-09-598-419-186	Sequence 186, App
C 695	18.8	60.6	951	3	US-10-149-736-92	Sequence 92, Appl	C 768	18.8	60.6	2848	3	US-09-023-655-1364	Sequence 1364, Ap
C 696	18.8	60.6	1026	3	US-09-252-991A-12367	Sequence 12367, A	C 769	18.8	60.6	2848	3	US-10-131-827-8861	Sequence 8861, Ap
C 697	18.8	60.6	1046	3	US-09-068-140A-5	Sequence 5, Appli	C 770	18.8	60.6	2848	3	US-10-131-827-8875	Sequence 8875, Ap
C 698	18.8	60.6	1062	3	US-09-902-540-6043	Sequence 6043, Ap	C 771	18.8	60.6	2854	3	US-09-991-181-66	Sequence 66, Appl
C 699	18.8	60.6	1066	2	US-08-793-599-2	Sequence 2, Appli	C 772	18.8	60.6	2854	3	US-09-990-444-66	Sequence 66, Appl
C 700	18.8	60.6	1068	3	US-09-902-540-244	Sequence 244, App	C 773	18.8	60.6	2854	3	US-09-997-333-66	Sequence 66, Appl
C 701	18.8	60.6	1106	3	US-09-902-540-262	Sequence 262, App	C 774	18.8	60.6	2854	3	US-09-992-598-66	Sequence 66, Appl
C 702	18.8	60.6	1128	3	US-09-248-796A-4834	Sequence 4834, Ap	C 775	18.8	60.6	2925	3	US-09-883-134-6	Sequence 6, Appli
C 703	18.8	60.6	1228	3	US-09-949-016-1670	Sequence 1670, Ap	C 776	18.8	60.6	2925	3	US-10-306-879-6	Sequence 6, Appli
C 704	18.8	60.6	1233	3	US-09-489-039A-2464	Sequence 2464, Ap	C 777	18.8	60.6	2928	3	US-09-352-991A-12178	Sequence 12178, A
C 705	18.8	60.6	1302	3	US-09-902-540-7377	Sequence 7377, Ap	C 778	18.8	60.6	3003	3	US-09-252-991A-14790	Sequence 14790, A
C 706	18.8	60.6	1307	3	US-09-506-066E-9	Sequence 9, Appli	C 779	18.8	60.6	3063	3	US-10-029-217A-27	Sequence 27, Appl
C 707	18.8	60.6	1341	2	US-09-513-999C-14927	Sequence 14927, A	C 780	18.8	60.6	3132	3	US-09-252-991A-14540	Sequence 14540, A
C 708	18.8	60.6	1361	2	US-08-530-529-1	Sequence 1, Appli	C 781	18.8	60.6	3139	3	US-09-901-572A-2	Sequence 2, Appli
C 709	18.8	60.6	1361	2	US-09-119-264-1	Sequence 1, Appli	C 782	18.8	60.6	3298	3	US-10-362-247-4	Sequence 4, Appli
C 710	18.8	60.6	1370	3	US-09-949-016-5339	Sequence 5339, Ap	C 783	18.8	60.6	3302	3	US-09-620-312D-475	Sequence 475, App
C 711	18.8	60.6	1381	3	US-09-594-506-25	Sequence 25, Appl	C 784	18.8	60.6	3364	2	US-08-735-609-9	Sequence 9, Appli
C 712	18.8	60.6	1395	3	US-09-799-451-650	Sequence 450, App	C 785	18.8	60.6	3364	2	US-08-735-609-9	Sequence 9, Appli
C 713	18.8	60.6	1476	3	US-10-104-047-118	Sequence 118, App	C 786	18.8	60.6	3364	3	US-09-315-372-9	Sequence 9, Appli
C 714	18.8	60.6	1498	3	US-10-104-047-734	Sequence 734, App	C 787	18.8	60.6	3364	3	US-09-244-752-9	Sequence 9, Appli
C 715	18.8	60.6	1551	3	US-09-016-434-1239	Sequence 1239, Ap	C 788	18.8	60.6	3364	3	US-09-245-497-9	Sequence 9, Appli
C 716	18.8	60.6	1551	3	US-09-023-655-1186	Sequence 1186, Ap	C 789	18.8	60.6	3384	3	US-09-562-919-9	Sequence 9, Appli
C 717	18.8	60.6	1577	3	US-09-270-767-3138	Sequence 3138, Ap	C 790	18.8	60.6	3411	3	US-09-252-991A-14823	Sequence 14823, A
C 718	18.8	60.6	1577	3	US-09-270-767-18420	Sequence 18420, A	C 791	18.8	60.6	3585	3	US-08-549-846-2	Sequence 12417, A
C 719	18.8	60.6	1596	2	US-08-531-601-2	Sequence 2, Appli	C 792	18.8	60.6	3678	3	US-09-252-991A-12417	Sequence 12417, A
C 720	18.8	60.6	1596	2	US-08-859-032-2	Sequence 2, Appli	C 793	18.8	60.6	3825	2	US-08-737-597-1	Sequence 1, Appli
C 721	18.8	60.6	1621	3	US-09-949-016-3975	Sequence 3975, Ap	C 794	18.8	60.6	3825	2	US-08-737-597-2	Sequence 2, Appli
C 722	18.8	60.6	1650	3	US-09-489-039A-6798	Sequence 6798, Ap	C 795	18.8	60.6	3923	3	US-08-860-635A-20	Sequence 20, Appl
C 723	18.8	60.6	1660	3	US-09-857-612A-11	Sequence 11, Appl	C 796	18.8	60.6	3923	3	US-09-481-476-20	Sequence 20, Appl
C 724	18.8	60.6	1674	3	US-09-489-039A-6624	Sequence 1622, Ap	C 797	18.8	60.6	3923	3	US-09-910-087-20	Sequence 20, Appl
C 725	18.8	60.6	1695	3	US-09-949-016-1222	Sequence 1222, Ap	C 798	18.8	60.6	3934	3	US-09-949-016-3527	Sequence 3527, Ap
C 726	18.8	60.6	1717	3	US-09-949-016-874	Sequence 874, App	C 799	18.8	60.6	3936	3	US-09-949-016-59	Sequence 59, Appl
C 727	18.8	60.6	1740	3	US-09-489-039A-5163	Sequence 5163, Ap	C 800	18.8	60.6	4257	3	US-10-197-220-164	Sequence 164, App
C 728	18.8	60.6	1780	3	US-09-054-272-1	Sequence 1, Appli	C 801	18.8	60.6	4359	3	US-09-902-540-594	Sequence 594, App
C 729	18.8	60.6	1879	3	US-10-104-047-1155	Sequence 1155, Ap	C 802	18.8	60.6	4663	3	US-09-751-687-8	Sequence 8, Appli
C 730	18.8	60.6	1896	3	US-09-949-016-5724	Sequence 5724, Ap	C 803	18.8	60.6	4663	3	US-09-751-687-11	Sequence 11, Appl
C 731	18.8	60.6	1900	3	US-10-104-047-1576	Sequence 1576, Ap	C 804	18.8	60.6	4881	3	US-09-863-859-23	Sequence 23, Appl
C 732	18.8	60.6	1926	3	US-09-249-585A-2	Sequence 2, Appli	C 805	18.8	60.6	5133	3	US-09-023-655-1290	Sequence 1290, Ap
C 733	18.8	60.6	1926	3	US-09-410-399-3	Sequence 3, Appli	C 806	18.8	60.6	5133	3	US-10-261-164-3	Sequence 3, Appli
C 734	18.8	60.6	1941	3	US-09-902-540-6922	Sequence 6922, Ap	C 807	18.8	60.6	5137	6	PCT-US96-01314-39	Sequence 39, Appl
C 735	18.8	60.6	1983	3	US-09-902-540-3373	Sequence 3373, Ap	C 808	18.8	60.6	5138	2	US-08-476-062A-39	Sequence 39, Appl
C 736	18.8	60.6	2026	3	US-09-902-540-6163	Sequence 6163, Ap	C 809	18.8	60.6	5331	3	US-09-556-877-173	Sequence 173, App
C 737	18.8	60.6	2027	3	US-09-902-540-303	Sequence 303, App	C 810	18.8	60.6	5331	3	US-09-620-412C-173	Sequence 173, App
C 738	18.8	60.6	2093	3	US-10-104-047-1666	Sequence 1666, Ap	C 811	18.8	60.6	5331	3	US-09-598-419-173	Sequence 173, Appl
C 739	18.8	60.6	2115	3	US-09-489-039A-2670	Sequence 2670, Ap	C 812	18.8	60.6	5452	2	US-09-130-114-1	Sequence 1, Appli
C 740	18.8	60.6	2142	2	US-08-793-599-3	Sequence 3, Appli	C 813	18.8	60.6	5883	3	US-09-949-016-5001	Sequence 5001, Ap
C 741	18.8	60.6	2147	3	US-09-949-016-5245	Sequence 5245, Ap	C 814	18.8	60.6	6158	3	US-09-919-497-6	Sequence 6, Appli
C 742	18.8	60.6	2149	3	US-09-949-016-456	Sequence 456, App	C 815	18.8	60.6	6312	2	US-08-531-601-3	Sequence 3, Appli
C 743	18.8	60.6	2154	3	US-09-495-050A-294	Sequence 294, App	C 816	18.8	60.6	6312	2	US-08-859-032-3	Sequence 3, Appli
C 744	18.8	60.6	2190	3	US-09-625-188-19	Sequence 19, Appl	C 817	18.8	60.6	6363	3	US-09-902-540-707	Sequence 707, App
C 745	18.8	60.6	2212	3	US-09-270-767-14682	Sequence 14682, A	C 818	18.8	60.6	6704	3	US-09-949-002-85	Sequence 85, Appl
C 746	18.8	60.6	2249	3	US-08-860-635A-18	Sequence 18, Appl	C 819	18.8	60.6	6714	3	US-09-949-002-246	Sequence 246, App
C 747	18.8	60.6	2249	3	US-09-281-476A-18	Sequence 18, Appl	C 820	18.8	60.6	7057	3	US-09-799-451-112	Sequence 112, App
C 748	18.8	60.6	2249	3	US-09-910-087-18	Sequence 18, Appl	C 821	18.8	60.6	7301	3	US-09-816-088-3	Sequence 3, Appli
C 749	18.8	60.6	2272	3	US-09-108-857-1	Sequence 1, Appli	C 822	18.8	60.6	7301	3	US-09-956-993-3	Sequence 3, Appli
C 750	18.8	60.6	2313	3	US-09-370-838-157	Sequence 157, App	C 823	18.8	60.6	7527	2	US-09-949-016-16837	Sequence 16837, A
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ALIGNMENTS

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; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
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; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
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; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
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; APPLICANT: VENTER, J. Craig et al.
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; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
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; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
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; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
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; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
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; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
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; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
```

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; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-1

Query Match          79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 21;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCCCTGCTCTCTCTCTAG 1073

RESULT 7
US-09-372-339-2
; Sequence 2, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-2

Query Match          79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 21;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCCCTGCTCTCTCTCTAG 1073

RESULT 8
US-09-144-367-3
; Sequence 3, Application US/09144367
; Patent No. 6432639
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/09/144,367
; CURRENT FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/058,612
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-09-144-367-3
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Query Match          79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 21;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 1073

RESULT 9
US-10-085-612A-3
; Sequence 3, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612A-3

Query Match          79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 21;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 1073

RESULT 10
US-09-949-016-12963
; Sequence 12963, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12963
; LENGTH: 31197
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12963

Query Match          79.4%; Score 24.6; DB 3; Length 31197;
Best Local Similarity 87.1%; Pred. No. 28;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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```
QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db 1940 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 1970
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RESULT 11

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US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11863
```

```
Query Match          79.4%; Score 24.6; DB 3; Length 35803;
Best Local Similarity 87.1%; Pred. No. 28;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db 1924 GCTGCAGCTATAGCCCTGCTCTCTCTCCAG 1954
```

RESULT 12

```
US-09-949-016-12962
; Sequence 12962, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12962
; LENGTH: 35804
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12962
```

```
Query Match          79.4%; Score 24.6; DB 3; Length 35804;
Best Local Similarity 87.1%; Pred. No. 28;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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```
QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db 1924 GCTGCAGCTATAGCCCTGCTCTCTCTCCAG 1954
```



```
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 1697 GCTGCAGCGCTGCTCCAGCTCTCTGTCAG 1667

RESULT 19
US-09-949-016-15817
; Sequence 15817, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15817
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(53394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15817

Query Match 74.2%; Score 23; DB 3; Length 53394;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 52595 GCTCCAGTCCAGCCCACTCTCTCCAG 52625

RESULT 20
US-09-949-016-15818
; Sequence 15818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15818
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(53394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15818

Query Match 74.2%; Score 23; DB 3; Length 53394;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 52595 GCTCCAGTCCAGCCCACTCTCTCCAG 52625

RESULT 21
US-09-949-016-15819
; Sequence 15819, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15819
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(53394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15819

Query Match 74.2%; Score 23; DB 3; Length 53394;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 52595 GCTCCAGTCCAGCCCACTCTCTCCAG 52625

RESULT 22
US-09-949-016-15820
; Sequence 15820, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15820
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
```



```
; LENGTH: 23394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(23394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17131

Query Match          69.7%; Score 21.6; DB 3; Length 23394;
Best Local Similarity 85.7%; Pred. No. 2.7e+02;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTTCCAG 31
Db 20957 GCAGCCCACTCCCACTCCATCTCCAG 20984

RESULT 36
US-09-949-002-674
; Sequence 674, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 674
; LENGTH: 185765
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-674

Query Match          69.7%; Score 21.6; DB 3; Length 185765;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCCACTCTCTTCTCC 29
Db 127482 CTGCATCTCCAGCCTCACCTGCTTCTCC 127509

RESULT 37
US-09-949-002-707
; Sequence 707, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 707
; LENGTH: 185766
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-707

Query Match          69.7%; Score 21.6; DB 3; Length 185766;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCCACTCTCTTCTCC 29
Db 127482 CTGCATCTCCAGCCTCACCTGCTTCTCC 127509

Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCCACTCTCTTCTCC 29
Db 127482 CTGCATCTCCAGCCTCACCTGCTTCTCC 127509

RESULT 38
US-08-209-747-13/c
; Sequence 13, Application US/08209747
; Patent No. 5733771
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Colgin, Mark
; TITLE OF INVENTION: CDNAs Encoding Minor Ampullate Spider
; TITLE OF INVENTION: Silk Proteins
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-3487
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,747
; FILING DATE: 14-MAR-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 144 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: N. clavipes
; TISSUE TYPE: minor ampullate gland
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..144
; OTHER INFORMATION: /label=cloned cDNA
; OTHER INFORMATION: /note="partial sequence of pMISS3, 11-2 template,
; OTHER INFORMATION: forward primer"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..144
; OTHER INFORMATION: /product="translation of pMISS3
; OTHER INFORMATION: partial sequence"
US-08-209-747-13

Query Match          69.0%; Score 21.4; DB 2; Length 144;
Best Local Similarity 80.6%; Pred. No. 2e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTTCTCCAG 31
Db 56 GCGGCTGCAGCAGCACCAGCTCTCTGCTCCAG 26

RESULT 39
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US-08-458-298-13/c
; Sequence 13, Application US/08458298
; Patent No. 5756677
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Colgin, Mark
; TITLE OF INVENTION: cDNAs Encoding Minor Ampullate Spider
; TITLE OF INVENTION: Silk Proteins
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-3487
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/458,298
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/209,747
; FILING DATE: 14-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 144 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: N. clavipes
; TISSUE TYPE: minor ampullate gland
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..144
; OTHER INFORMATION: /label= cloned cDNA
; OTHER INFORMATION: /note= "partial sequence of pMISS3, 11-2 template,
; OTHER INFORMATION: forward primer"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..144
; OTHER INFORMATION: /product= "translation of pMISS3
; OTHER INFORMATION: partial sequence"
US-08-458-298-13
Query Match 69.0%; Score 21.4; DB 2; Length 144;
Best Local Similarity 80.6%; Pred. No. 2e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 56 GCGGCTGCAGCAGCACCAGCTCTCTCTCCAG 26
RESULT 40
US-09-248-796A-11526
; Sequence 11526, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
```

```

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 11526
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Candida albicans
; US-09-248-796A-11526
Query Match 69.0%; Score 21.4; DB 3; Length 522;
Best Local Similarity 80.8%; Pred. No. 2.3e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 187 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 217
RESULT 41
US-09-775-398-81/c
; Sequence 81, Application US/09775398
; Patent No. 6893820
; GENERAL INFORMATION:
; APPLICANT: Plasm, Christoph
; TITLE OF INVENTION: Detection of Methylated CpG Rich Sequences Diagnostic for Maligna
; FILE REFERENCE: 22727/04075
; CURRENT APPLICATION NUMBER: US/09/775,398
; CURRENT FILING DATE: 2001-01-04
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 81
; LENGTH: 746
; TYPE: DNA
; ORGANISM: Homo sapiens 5.E.25
; FEATURE:
; NAME/KEY: n
; LOCATION: (695)..(695)
; OTHER INFORMATION: a or g or c or t
US-09-775-398-81
Query Match 69.0%; Score 21.4; DB 3; Length 746;
Best Local Similarity 80.6%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 561 GCAGCAGCAGCAGCTCCAGCTCCAGCTCCAG 531
RESULT 42
US-09-543-681A-1007
; Sequence 1007, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 1007
; LENGTH: 1029
; TYPE: DNA
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; ORGANISM: Proteus mirabilis
US-09-543-681A-1007

Query Match          69.0%; Score 21.4; DB 3; Length 1029;
Best Local Similarity 80.6%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31
Db 742 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 772

RESULT 43
US-09-927-267-3/c
; Sequence 3, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1728
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)
; OTHER INFORMATION: coding sequence
; NAME/KEY: CDS
; LOCATION: (1)..(1728)
; OTHER INFORMATION: CNG2B
US-09-927-267-3

Query Match          69.0%; Score 21.4; DB 3; Length 1728;
Best Local Similarity 80.6%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31
Db 1096 GCTGCAGCTTCAGCACCAGCTCTCTCCAGCAG 1066

RESULT 44
US-09-927-267-2/c
; Sequence 2, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2308
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)

; ORGANISM: Proteus mirabilis
US-09-543-681A-1007

Query Match          69.0%; Score 21.4; DB 3; Length 1029;
Best Local Similarity 80.6%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31
Db 742 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 772

RESULT 43
US-09-927-267-3/c
; Sequence 3, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1728
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)
; OTHER INFORMATION: coding sequence
; NAME/KEY: CDS
; LOCATION: (1)..(1728)
; OTHER INFORMATION: CNG2B
US-09-927-267-3

Query Match          69.0%; Score 21.4; DB 3; Length 1728;
Best Local Similarity 80.6%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31
Db 1096 GCTGCAGCTTCAGCACCAGCTCTCTCCAGCAG 1066

RESULT 44
US-09-927-267-2/c
; Sequence 2, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2308
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)

; OTHER INFORMATION: complete nucleotide sequence derived from assembly
; NAME/KEY: CDS
; LOCATION: (333)..(2060)
; OTHER INFORMATION: CNG2B
US-09-927-267-2

Query Match          69.0%; Score 21.4; DB 3; Length 2308;
Best Local Similarity 80.6%; Pred. No. 2.6e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31
Db 1428 GCTGCAGCTTCAGCACCAGCTCTCTCCAGCAG 1398

RESULT 45
US-09-799-451-351/c
; Sequence 351, Application US/09799451
; Patent No. 6783969
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhang, Jie
; APPLICANT: Xue, Aidong J.
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Ma, Yungqing
; APPLICANT: Yamazaki, Victoria
; APPLICANT: Chen, Rui-hong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wang, Dunrui
; APPLICANT: Yang, Yonghong
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Reena
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6783969el Nucleic Acids and
; FILE REFERENCE: 803
; CURRENT APPLICATION NUMBER: US/09/799,451
; CURRENT FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 948
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 351
; LENGTH: 2366
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (639)..(2363)
US-09-799-451-351

Query Match          69.0%; Score 21.4; DB 3; Length 2366;
Best Local Similarity 80.6%; Pred. No. 2.6e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31
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RESULT 46
US-09-270-767-13149/c
; Sequence 13149, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
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; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 13149
 ; LENGTH: 2760
 ; TYPE: DNA
 ; ORGANISM: Drosophila melanogaster
 US-09-270-767-13149

Query Match 69.0%; Score 21.4; DB 3; Length 2760;
 Best Local Similarity 80.6%; Pred. No. 2.7e+02;
 Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
 Db 178 GCTGCACAGCAGCTCCAGCTCTCTCCAG 148

RESULT 47

US-07-646-537B-1
 ; Sequence 1, Application US/07646537B
 ; Patent No. 5348664
 ; GENERAL INFORMATION:
 ; APPLICANT: Barbacid, Mariano
 ; TITLE OF INVENTION: Vav Proto-Oncogene Protein
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bristol-Myers Squibb Company
 ; STREET: P.O. Box 4000
 ; CITY: Princeton
 ; STATE: New Jersey
 ; COUNTRY: U.S.A.
 ; ZIP: 08543-4000
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA: US/07646,537B
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Gaul, Timothy J.
 ; REGISTRATION NUMBER: 33,111
 ; REFERENCE/DOCKET NUMBER: DC10
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (609) 921-5901
 ; TELEFAX: (609) 921-4526
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2793 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: CDNA
 ; HYPOTHETICAL: NO
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 14..2545
 US-07-646-537B-1

Query Match 69.0%; Score 21.4; DB 2; Length 2793;
 Best Local Similarity 80.6%; Pred. No. 2.7e+02;
 Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
 Db 1004 GCGGGTCTGAGTACACCTCTCTCTCCAG 1034

RESULT 48

US-09-949-016-16870/c

; Sequence 16870, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 16870
 ; LENGTH: 13261
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-16870

Query Match 69.0%; Score 21.4; DB 3; Length 13261;
 Best Local Similarity 80.6%; Pred. No. 3e+02;
 Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
 Db 8772 GCTGCAGCCCGACCTCTCTCTCCAG 8742

RESULT 49

US-09-949-016-12147
 ; Sequence 12147, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 12147
 ; LENGTH: 767677
 ; TYPE: DNA
 ; ORGANISM: Human
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)..(767677)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-12147

Query Match 69.0%; Score 21.4; DB 3; Length 767677;
 Best Local Similarity 80.6%; Pred. No. 4e+02;
 Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
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RESULT 50

US-09-949-016-17361
 ; Sequence 17361, Application US/09949016

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OM nucleic - nucleic search, using sw model

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(without alignments)
432.243 Million cell updates/sec

Title: US-09-869-169c-19_COPY_1180_1210

Perfect score: 31

Sequence: 1 gctgcagctgcagccacacctctctccag 31

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Gapop 10_0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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Published Applications NA_Main:*

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- 2: /cgn2_6/prodata/1/pubpna/US08_PUBCOMB.seq:*
- 3: /cgn2_6/prodata/1/pubpna/US09A_PUBCOMB.seq:*
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- 10: /cgn2_6/prodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	30.6	98.7	611	4	US-09-925-065A-839692
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4	29.4	94.8	96960	8	US-10-484-577-662
5	26.2	84.5	1012	3	US-09-957-997-4
6	26.2	84.5	11186	3	US-09-957-997-1
7	26.2	84.5	11186	8	US-10-415-607-4
8	26.2	84.5	96960	8	US-10-484-577-662
9	24.6	79.4	1345	3	US-09-943-115A-1
10	24.6	79.4	1345	5	US-10-146-575-3
11	24.6	79.4	1345	5	US-10-085-612-3
12	24.6	79.4	12983	9	US-10-415-607-1
13	24.6	79.4	13035	6	US-10-121-960C-14
14	24.6	79.4	15185	6	US-10-121-960C-17
15	24.6	79.4	177531	8	US-10-484-577-660
16	23.6	76.1	795	3	US-09-795-926-47
17	23.6	76.1	795	6	US-10-364-774-47
18	23.6	76.1	72821	9	US-10-461-862-149
19	23.4	75.5	29560	7	US-10-322-281-791
20	23.2	74.8	1001	3	US-09-798-029-3
21	23	74.2	186	10	US-11-097-143-32333
22	23	74.2	634	7	US-10-374-780A-1570
23	23	74.2	634	8	US-10-425-115-34631

Sequence 4262, Ap
Sequence 28242, A
Sequence 57, Appl
Sequence 6761, Ap
Sequence 7006, Ap
Sequence 7, Appl
Sequence 2, Appl
Sequence 32332, A
Sequence 98283, A
Sequence 28630, A
Sequence 1960, Ap
Sequence 31, Appl
Sequence 132, App
Sequence 132, App
Sequence 6, Appl
Sequence 27, Appl
Sequence 24433, A
Sequence 34706, A
Sequence 34706, A
Sequence 3250, A
Sequence 15800, A
Sequence 17824, A
Sequence 15799, A
Sequence 2198, Ap
Sequence 5291, Ap
Sequence 31475, A
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Sequence 103, App
Sequence 329, App
Sequence 720, App
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Sequence 621, App
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Sequence 29803, A
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Sequence 15014, A
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Sequence 54, Appl
Sequence 4, Appl
Sequence 81, Appl
Sequence 72696, A
Sequence 38750, A
Sequence 38, Appl

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98	21.4	69.0	1527	7	US-10-424-599-6299	Sequence 6299, Ap	c 171	21.2	68.4	541	7	US-10-767-701-26719	Sequence 26731, A
99	21.4	69.0	1655	10	US-11-097-143-40088	Sequence 40088, A	c 172	21.2	68.4	542	7	US-10-767-701-29731	Sequence 29719, A
c 100	21.4	69.0	1682	8	US-10-479-638-10	Sequence 10, Appl	c 173	21.2	68.4	623	4	US-09-925-065A-536609	Sequence 536609, A
c 101	21.4	69.0	1695	8	US-10-481-113-27	Sequence 27, Appl	c 174	21.2	68.4	1070	7	US-10-437-963-22362	Sequence 22362, A
c 102	21.4	69.0	1711	8	US-10-479-638-5	Sequence 5, Appl	c 175	21.2	68.4	1200	5	US-10-137-036-36	Sequence 36, Appl
c 103	21.4	69.0	1711	8	US-10-488-056-26	Sequence 26, Appl	c 176	21.2	68.4	1200	8	US-10-702-319A-36	Sequence 36, Appl
c 104	21.4	69.0	1719	7	US-10-260-238-5995	Sequence 5995, Ap	c 177	21.2	68.4	1471	7	US-10-424-599-129382	Sequence 129382, A
c 105	21.4	69.0	1719	8	US-10-481-113-103	Sequence 103, App	c 178	21	67.7	201	8	US-10-741-600-15340	Sequence 15340, A
c 106	21.4	69.0	1719	9	US-10-481-032A-65	Sequence 65, Appl	c 179	21	67.7	201	8	US-10-741-600-15350	Sequence 15350, A
c 107	21.4	69.0	1727	7	US-10-437-963-10917	Sequence 10917, A	c 180	21	67.7	201	8	US-10-741-600-53076	Sequence 53076, A
c 108	21.4	69.0	1728	3	US-09-927-267-3	Sequence 3, Appl	c 181	21	67.7	201	8	US-10-741-600-53094	Sequence 53094, A
c 109	21.4	69.0	1728	6	US-10-189-507-2	Sequence 2, Appl	c 182	21	67.7	201	8	US-10-741-600-64518	Sequence 64518, A
c 110	21.4	69.0	1728	10	US-11-147-623-3	Sequence 3, Appl	c 183	21	67.7	201	8	US-10-741-600-64612	Sequence 64612, A
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c 112	21.4	69.0	1758	5	US-10-207-351-1	Sequence 1, Appl	c 185	21	67.7	225	10	US-11-097-143-31628	Sequence 31628, A
c 113	21.4	69.0	1835	3	US-09-842-758-27	Sequence 27, Appl	c 186	21	67.7	264	7	US-09-924-093B-5860	Sequence 5860, Ap
c 114	21.4	69.0	1835	7	US-10-174-333-27	Sequence 27, Appl	c 187	21	67.7	295	3	US-10-357-322-3	Sequence 3, Appl
c 115	21.4	69.0	1955	7	US-10-437-963-53266	Sequence 53266, A	c 188	21	67.7	300	6	US-10-779-543-1406	Sequence 1406, Ap
c 116	21.4	69.0	1968	7	US-10-437-963-39305	Sequence 39305, A	c 189	21	67.7	300	9	US-10-779-543-1406	Sequence 23575, A
c 117	21.4	69.0	2013	7	US-10-311-624-2	Sequence 2, Appl	c 190	21	67.7	376	8	US-10-674-124A-23575	Sequence 238, App
c 118	21.4	69.0	2217	10	US-11-097-143-38120	Sequence 38120, A	c 191	21	67.7	381	5	US-10-062-727-298	Sequence 2381, Ap
c 119	21.4	69.0	2285	7	US-10-112-944-60	Sequence 60, Appl	c 192	21	67.7	388	9	US-10-756-149-2381	Sequence 79945, A
c 120	21.4	69.0	2308	3	US-09-927-267-2	Sequence 2, Appl	c 193	21	67.7	465	7	US-10-437-963-79945	Sequence 350, App
c 121	21.4	69.0	2308	7	US-10-437-963-70708	Sequence 70708, A	c 194	21	67.7	485	7	US-10-767-701-350	Sequence 34, Appl
c 122	21.4	69.0	2308	10	US-11-147-623-2	Sequence 2, Appl	c 195	21	67.7	521	3	US-09-884-441-34	Sequence 34, Appl
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c 124	21.4	69.0	2551	3	US-09-842-758-29	Sequence 29, Appl	c 197	21	67.7	521	3	US-08-827-271-34	Sequence 34, Appl
c 125	21.4	69.0	2551	7	US-10-174-333-29	Sequence 29, Appl	c 198	21	67.7	521	6	US-10-198-053-34	Sequence 34, Appl
c 126	21.4	69.0	3013	10	US-11-097-143-41642	Sequence 41642, A	c 199	21	67.7	521	6	US-10-860-790-34	Sequence 34, Appl
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c 132	21.4	69.0	5163	6	US-10-170-385-90	Sequence 90, Appl	c 205	21	67.7	732	6	US-10-027-632-148086	Sequence 148086, A
c 133	21.4	69.0	5163	7	US-10-260-708-41	Sequence 41, Appl	c 206	21	67.7	756	9	US-10-779-543-5545	Sequence 5545, Ap
c 134	21.4	69.0	5163	9	US-10-472-595A-3	Sequence 3, Appl	c 207	21	67.7	923	9	US-10-487-901-7300	Sequence 7300, Ap
c 135	21.4	69.0	5163	9	US-10-956-157-2385	Sequence 2385, Ap	c 208	21	67.7	957	9	US-10-450-763-12628	Sequence 12628, A
c 136	21.4	69.0	5163	9	US-10-508-423-3	Sequence 3, Appl	c 209	21	67.7	1001	6	US-10-170-097-643	Sequence 643, App
c 137	21.4	69.0	5342	7	US-10-437-963-29392	Sequence 29392, A	c 210	21	67.7	1001	6	US-10-170-097-644	Sequence 644, App
c 138	21.4	69.0	5377	10	US-11-097-143-38119	Sequence 38119, A	c 211	21	67.7	1001	6	US-10-170-097-645	Sequence 645, App
c 139	21.4	69.0	5511	5	US-10-128-714-2062	Sequence 2062, Ap	c 212	21	67.7	1001	6	US-10-170-097-646	Sequence 646, App
c 140	21.4	69.0	5574	5	US-10-128-714-7062	Sequence 7062, Ap	c 213	21	67.7	1001	8	US-10-926-684-643	Sequence 643, App
c 141	21.4	69.0	5713	5	US-10-128-714-1062	Sequence 1062, Ap	c 214	21	67.7	1001	8	US-10-926-684-644	Sequence 644, App
c 142	21.4	69.0	5713	5	US-10-128-714-0662	Sequence 0662, Ap	c 215	21	67.7	1001	8	US-10-926-684-645	Sequence 645, App
c 143	21.4	69.0	5769	10	US-11-097-143-9727	Sequence 9727, Ap	c 216	21	67.7	1001	8	US-10-926-684-646	Sequence 646, App
c 144	21.4	69.0	5653	10	US-11-097-143-23993	Sequence 23993, A	c 217	21	67.7	1013	3	US-09-925-301-174	Sequence 174, App
c 145	21.4	69.0	6797	10	US-11-097-143-24268	Sequence 24268, A	c 218	21	67.7	1013	5	US-10-023-896-15	Sequence 15, Appl
c 146	21.4	69.0	6919	10	US-11-097-143-5630	Sequence 5630, Ap	c 219	21	67.7	1013	5	US-10-023-896-43	Sequence 43, Appl
c 147	21.4	69.0	7713	5	US-10-128-714-62	Sequence 62, Appl	c 220	21	67.7	1013	10	US-11-122-117-15	Sequence 15, Appl
c 148	21.4	69.0	7713	5	US-10-128-714-5062	Sequence 5062, Ap	c 221	21	67.7	1013	10	US-11-122-117-43	Sequence 43, Appl
c 149	21.4	69.0	7736	10	US-11-097-143-34432	Sequence 34432, A	c 222	21	67.7	1076	4	US-09-925-065A-10770	Sequence 10770, A
c 150	21.4	69.0	10989	3	US-09-735-932-3	Sequence 3, Appl	c 223	21	67.7	1080	7	US-10-282-122A-14967	Sequence 14967, A
c 151	21.4	69.0	10989	5	US-10-207-951-3	Sequence 3, Appl	c 224	21	67.7	1112	8	US-10-425-115-76767	Sequence 76767, A
c 152	21.4	69.0	18505	10	US-11-097-143-5629	Sequence 5629, Ap	c 225	21	67.7	1163	3	US-09-925-299-88	Sequence 88, Appl
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c 154	21.4	69.0	33479	10	US-11-097-143-26293	Sequence 26293, A	c 227	21	67.7	1163	5	US-10-106-698-1100	Sequence 1100, Ap
c 155	21.4	69.0	35832	10	US-11-097-143-26293	Sequence 26293, A	c 228	21	67.7	1188	6	US-10-369-493-31701	Sequence 31701, A
c 156	21.4	69.0	49680	3	US-10-459-262A-1	Sequence 1, Appl	c 229	21	67.7	1269	9	US-10-450-763-12133	Sequence 12133, A
c 157	21.4	69.0	170834	3	US-09-835-232-7	Sequence 7, Appl	c 230	21	67.7	1532	7	US-10-425-114-763	Sequence 763, App
c 158	21.4	69.0	170834	6	US-10-308-485-7	Sequence 7, Appl	c 231	21	67.7	1738	7	US-10-425-114-31209	Sequence 31209, A
c 159	21.4	69.0	177900	9	US-10-287-436A-1277	Sequence 1277, Ap	c 232	21	67.7	1756	6	US-10-120-988-248	Sequence 248, App
c 160	21.4	69.0	221000	6	US-10-174-014-12	Sequence 12, Appl	c 233	21	67.7	1847	6	US-10-120-988-248	Sequence 248, App
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c 162	21.4	69.0	9025608	6	US-10-156-761-1	Sequence 1, Appl	c 235	21	67.7	1959	8	US-10-425-115-79862	Sequence 79862, A
c 163	21.2	68.4	201	5	US-10-062-727-322	Sequence 322, App	c 236	21	67.7	2201	10	US-11-097-143-27478	Sequence 27478, A
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c 169	21.2	68.4	438	5	US-10-062-727-344	Sequence 344, App	c 242	21	67.7	2469	5	US-10-274-878-1	Sequence 1, Appl

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C 244	21	67.7	2576	10	US-11-097-143-31627	Sequence 31627, A	317	20.4	65.8	378	3	US-09-864-408A-7795	Sequence 7795, Ap
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C 249	21	67.7	2867	8	US-10-741-600-672	Sequence 672, App	C 322	20.4	65.8	433	9	US-10-487-901-6971	Sequence 6971, Ap
C 250	21	67.7	2901	6	US-10-085-117-321	Sequence 321, App	C 323	20.4	65.8	457	7	US-10-424-599-27780	Sequence 27780, A
C 251	21	67.7	2939	10	US-11-097-143-1346	Sequence 1346, Ap	C 324	20.4	65.8	494	8	US-10-425-115-124354	Sequence 124354,
C 252	21	67.7	3261	10	US-11-097-143-25526	Sequence 25526, A	C 325	20.4	65.8	500	6	US-10-029-386-7142	Sequence 7142, Ap
C 253	21	67.7	3261	10	US-11-097-143-34859	Sequence 34859, A	C 326	20.4	65.8	503	6	US-10-029-386-8737	Sequence 8737, Ap
C 254	21	67.7	3937	10	US-11-097-143-15563	Sequence 15563, A	C 327	20.4	65.8	515	9	US-10-487-901-6970	Sequence 6970, Ap
C 255	21	67.7	4301	3	US-09-917-800A-1666	Sequence 1666, Ap	C 328	20.4	65.8	535	4	US-09-925-065A-278646	Sequence 278646,
C 256	21	67.7	4301	6	US-10-205-194-126	Sequence 126, App	C 329	20.4	65.8	535	4	US-09-925-065A-278647	Sequence 278647,
C 257	21	67.7	4678	341	US-10-120-988-341	Sequence 341, App	C 330	20.4	65.8	535	4	US-09-925-065A-278648	Sequence 278648,
C 258	21	67.7	5002	6	US-10-085-117-320	Sequence 320, App	C 331	20.4	65.8	547	9	US-10-779-543-19827	Sequence 19827, A
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C 261	21	67.7	8789	10	US-11-097-143-1801	Sequence 1801, Ap	C 334	20.4	65.8	567	3	US-09-864-761-91222	Sequence 9122, Ap
C 262	21	67.7	8943	7	US-10-257-166-48	Sequence 48, Appl	C 335	20.4	65.8	567	4	US-09-925-065A-331855	Sequence 331855,
C 263	21	67.7	14800	3	US-09-954-456-1601	Sequence 1601, Ap	C 336	20.4	65.8	567	4	US-09-925-065A-331856	Sequence 331856,
C 264	21	67.7	14800	6	US-10-269-909-61	Sequence 61, Appl	C 337	20.4	65.8	567	4	US-09-925-065A-331857	Sequence 331857,
C 265	21	67.7	14800	7	US-10-717-597-183	Sequence 183, App	C 338	20.4	65.8	567	4	US-09-925-065A-331858	Sequence 331858,
C 266	21	67.7	14800	9	US-10-843-641A-4628	Sequence 4628, Ap	C 339	20.4	65.8	586	7	US-10-767-701-1351	Sequence 1351, Ap
C 267	21	67.7	14800	9	US-10-956-157-418	Sequence 418, App	C 340	20.4	65.8	601	9	US-10-450-763-6776	Sequence 6776, Ap
C 268	21	67.7	14835	5	US-10-240-965-113	Sequence 113, App	C 341	20.4	65.8	608	7	US-10-021-323-9913	Sequence 9913, Ap
C 269	21	67.7	19025	5	US-10-274-878-3	Sequence 3, Appli	C 342	20.4	65.8	619	8	US-10-425-115-69437	Sequence 69437, A
C 270	21	67.7	19025	7	US-10-697-266-3	Sequence 3, Appli	C 343	20.4	65.8	631	7	US-10-767-701-23899	Sequence 23899, A
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C 273	21	67.7	24227	10	US-11-097-143-1345	Sequence 1345, Ap	C 346	20.4	65.8	644	4	US-09-925-065A-782104	Sequence 782104,
C 274	21	67.7	27890	7	US-10-741-601-5686	Sequence 5686, Ap	C 347	20.4	65.8	644	4	US-09-925-065A-838733	Sequence 838733,
C 275	21	67.7	27890	8	US-10-741-600-17751	Sequence 17751, A	C 348	20.4	65.8	669	7	US-10-437-963-60493	Sequence 60493, A
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C 277	21	67.7	39651	10	US-11-097-143-25525	Sequence 25525, A	C 350	20.4	65.8	776	7	US-10-437-963-100370	Sequence 100370,
C 278	21	67.7	88576	7	US-10-085-117-319	Sequence 319, App	C 351	20.4	65.8	786	7	US-10-437-963-77681	Sequence 77681, A
C 279	21	67.7	126872	7	US-10-741-601-5738	Sequence 5738, Ap	C 352	20.4	65.8	787	7	US-10-437-963-36896	Sequence 36896, A
C 280	21	67.7	126872	8	US-10-741-600-17885	Sequence 17885, A	C 353	20.4	65.8	795	7	US-10-424-599-34421	Sequence 34421, A
C 281	20.6	66.5	291	7	US-10-437-963-92281	Sequence 92281, A	C 354	20.4	65.8	843	7	US-10-767-701-2823	Sequence 2823, Ap
C 282	20.6	66.5	599	9	US-10-972-079-91217	Sequence 91217, A	C 355	20.4	65.8	893	8	US-10-425-115-106372	Sequence 106372,
C 283	20.6	66.5	664	7	US-10-437-963-97714	Sequence 97714, A	C 356	20.4	65.8	900	6	US-10-369-493-44698	Sequence 44698, A
C 284	20.6	66.5	668	7	US-10-437-963-47728	Sequence 47728, A	C 357	20.4	65.8	909	3	US-09-738-626-234	Sequence 234, App
C 285	20.6	66.5	825	7	US-10-437-963-102405	Sequence 102405, A	C 358	20.4	65.8	918	7	US-10-669-824-25	Sequence 25, Appl
C 286	20.6	66.5	885	10	US-11-097-143-33914	Sequence 33914, A	C 359	20.4	65.8	918	9	US-10-870-198-25	Sequence 25, Appl
C 287	20.6	66.5	948	6	US-10-168-097A-45	Sequence 45, Appl	C 360	20.4	65.8	921	10	US-11-097-143-17924	Sequence 17924, A
C 288	20.6	66.5	1588	6	US-10-728-260-6	Sequence 6, Appli	C 361	20.4	65.8	936	6	US-10-156-761-6382	Sequence 6382, Ap
C 289	20.6	66.5	1608	3	US-09-728-260-6	Sequence 6, Appli	C 362	20.4	65.8	959	8	US-10-425-115-151329	Sequence 151329,
C 290	20.6	66.5	1608	3	US-09-728-412-6	Sequence 6, Appli	C 363	20.4	65.8	960	6	US-10-029-386-22822	Sequence 22822, A
C 291	20.6	66.5	1608	5	US-10-325-917-6	Sequence 6, Appli	C 364	20.4	65.8	989	4	US-09-925-065A-278649	Sequence 278649,
C 292	20.6	66.5	1864	9	US-10-310-154-57	Sequence 57, Appl	C 365	20.4	65.8	1064	8	US-10-767-795-4150	Sequence 4150, Ap
C 293	20.6	66.5	1864	9	US-10-732-923-89	Sequence 89, Appl	C 366	20.4	65.8	1069	8	US-10-450-763-4758	Sequence 4758, Ap
C 294	20.6	66.5	1874	7	US-10-767-701-15657	Sequence 15657, A	C 367	20.4	65.8	1083	8	US-10-488-056-3	Sequence 3, Appli
C 295	20.6	66.5	1882	7	US-10-437-963-102401	Sequence 102401, A	C 368	20.4	65.8	1164	6	US-10-369-493-43210	Sequence 43210, A
C 296	20.6	66.5	2098	3	US-09-728-260-4	Sequence 4, Appli	C 369	20.4	65.8	1171	8	US-10-425-115-69448	Sequence 69448, A
C 297	20.6	66.5	2098	3	US-09-728-412-4	Sequence 4, Appli	C 370	20.4	65.8	1220	7	US-10-437-963-86031	Sequence 86031, A
C 298	20.6	66.5	2098	5	US-10-325-917-4	Sequence 4, Appli	C 371	20.4	65.8	1260	6	US-10-369-493-43229	Sequence 43229, A
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C 300	20.6	66.5	2176	9	US-10-961-569-19	Sequence 19, Appl	C 373	20.4	65.8	1434	10	US-11-097-143-4232	Sequence 4232, Ap
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C 302	20.6	66.5	2690	8	US-10-723-860-8023	Sequence 8023, Ap	C 375	20.4	65.8	1621	7	US-10-767-701-14621	Sequence 14621, A
C 303	20.6	66.5	2896	6	US-10-257-021-36	Sequence 36, Appl	C 376	20.4	65.8	1625	6	US-10-264-237-1116	Sequence 1116, Ap
C 304	20.6	66.5	2980	7	US-10-437-963-47730	Sequence 47730, A	C 377	20.4	65.8	1641	7	US-10-437-963-61799	Sequence 61799, A
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C 306	20.6	66.5	4513	7	US-10-240-425-1459	Sequence 1459, Ap	C 379	20.4	65.8	1746	5	US-10-074-527-3	Sequence 3, Appli
C 307	20.6	66.5	4513	3	US-09-880-107-3389	Sequence 3389, Ap	C 380	20.4	65.8	1746	6	US-10-292-896-57	Sequence 57, Appl
C 308	20.6	66.5	6457	9	US-10-631-467-416	Sequence 416, App	C 381	20.4	65.8	1746	8	US-10-705-401-54	Sequence 54, Appl
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C 310	20.6	66.5	6458	8	US-10-278-698-617	Sequence 617, App	C 383	20.4	65.8	1908	10	US-11-097-143-25574	Sequence 25574, A
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C 312	20.6	66.5	96276	8	US-10-723-860-451	Sequence 451, App	C 385	20.4	65.8	2000	7	US-10-260-238-2601	Sequence 2601, Ap
C 313	20.4	65.8	217	3	US-09-864-761-26394	Sequence 26394, A	C 386	20.4	65.8	2043	7	US-10-437-963-31987	Sequence 31987, A
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C 535	20	64.5	982	7	US-10-767-701-15060	Sequence 15060, A	C 608	20	64.5	249487	5	US-10-026-188-3	Sequence 3, Appli
C 536	20	64.5	986	8	US-10-425-115-67079	Sequence 67079, A	C 609	20	64.5	392000	6	US-10-027-983-11	Sequence 11, Appl
C 537	20	64.5	1023	6	US-10-106-698-366	Sequence 366, App	C 610	20	64.5	392000	6	US-10-448-753-11	Sequence 11, Appl
C 538	20	64.5	1048	7	US-10-425-114-20735	Sequence 20735, A	C 611	20	64.5	402850	3	US-09-844-653-5	Sequence 5, Appli
C 539	20	64.5	1084	7	US-10-425-114-25792	Sequence 25792, A	C 612	20	64.5	465237	3	US-09-913-2678A-1	Sequence 1, Appli
C 540	20	64.5	1106	7	US-10-425-114-27713	Sequence 27713, A	C 613	19.8	63.9	60	3	US-09-808-975-12288	Sequence 12288, A
C 541	20	64.5	1110	7	US-10-425-114-19763	Sequence 19763, A	C 614	19.8	63.9	180	7	US-10-424-599-83796	Sequence 83796, A
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C 543	20	64.5	1143	8	US-10-425-115-135999	Sequence 135999, A	C 616	19.8	63.9	270	7	US-10-437-963-58344	Sequence 58344, A
C 544	20	64.5	1153	7	US-10-767-701-15069	Sequence 15069, A	C 617	19.8	63.9	281	10	US-11-097-143-19397	Sequence 19397, A
C 545	20	64.5	1197	3	US-09-875-363-3	Sequence 3, Appli	C 618	19.8	63.9	305	3	US-09-864-408A-5511	Sequence 5511, Ap
C 546	20	64.5	1197	3	US-10-162-012-22	Sequence 22, Appl	C 619	19.8	63.9	308	3	US-09-822-293-1419	Sequence 1419, Ap
C 547	20	64.5	1197	6	US-10-162-102-22	Sequence 22, Appl	C 620	19.8	63.9	326	7	US-10-637-855-303	Sequence 303, App
C 548	20	64.5	1197	9	US-10-862-110-1	Sequence 1, Appli	C 621	19.8	63.9	327	8	US-10-425-115-116536	Sequence 116536, A
C 549	20	64.5	1201	7	US-10-425-114-28453	Sequence 28453, A	C 622	19.8	63.9	337	3	US-09-803-719-1848	Sequence 1848, Ap
C 550	20	64.5	1212	8	US-10-425-115-69286	Sequence 69286, A	C 623	19.8	63.9	337	3	US-10-779-543-15118	Sequence 15118, A
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C 552	20	64.5	1254	9	US-10-862-110-3	Sequence 3, Appli	C 625	19.8	63.9	353	6	US-10-425-115-159705	Sequence 159705, A
C 553	20	64.5	1338	10	US-11-097-143-36662	Sequence 36662, A	C 626	19.8	63.9	379	8	US-09-925-065A-513302	Sequence 513302, A
C 554	20	64.5	1344	8	US-10-856-499-2005	Sequence 2005, Ap	C 627	19.8	63.9	397	4	US-10-242-535A-21191	Sequence 21191, A
C 555	20	64.5	1344	8	US-10-425-115-71841	Sequence 71841, A	C 628	19.8	63.9	398	7	US-10-085-783A-21191	Sequence 21191, A
C 556	20	64.5	1356	3	US-09-875-363-1	Sequence 1, Appli	C 629	19.8	63.9	398	7	US-09-938-842A-137	Sequence 137, App
C 557	20	64.5	1356	5	US-10-162-012-20	Sequence 20, Appl	C 630	19.8	63.9	402	3	US-09-938-842A-137	Sequence 137, App
C 558	20	64.5	1356	6	US-10-162-102-20	Sequence 20, Appl	C 631	19.8	63.9	403	3	US-10-779-543-12813	Sequence 12813, A
C 559	20	64.5	1358	8	US-10-425-115-147670	Sequence 147670, A	C 632	19.8	63.9	408	7	US-10-260-238-5489	Sequence 5489, Ap
C 560	20	64.5	1403	8	US-10-856-499-2005	Sequence 2005, Ap	C 633	19.8	63.9	422	3	US-09-738-973-337	Sequence 337, App
C 561	20	64.5	1414	8	US-10-425-115-71841	Sequence 71841, A	C 634	19.8	63.9	422	3	US-09-854-133-337	Sequence 337, App
C 562	20	64.5	1440	8	US-10-425-115-67072	Sequence 67072, A	C 635	19.8	63.9	425	5	US-10-144-649A-337	Sequence 337, App
C 563	20	64.5	1578	8	US-10-425-115-12816	Sequence 12816, A	C 636	19.8	63.9	425	8	US-10-425-115-146854	Sequence 146854, A
C 564	20	64.5	1599	7	US-10-425-114-22378	Sequence 22378, A	C 637	19.8	63.9	443	3	US-09-803-719-1693	Sequence 1693, Ap
C 565	20	64.5	1674	7	US-10-437-963-44774	Sequence 44774, A	C 638	19.8	63.9	443	9	US-10-779-543-14963	Sequence 14963, A
C 566	20	64.5	1826	9	US-10-885-977-5	Sequence 5, Appli	C 639	19.8	63.9	444	9	US-10-972-079-1921	Sequence 1921, Ap
C 567	20	64.5	1847	6	US-10-264-049-820	Sequence 820, App	C 640	19.8	63.9	474	8	US-09-918-995-26938	Sequence 26938, A
C 568	20	64.5	1895	7	US-10-616-897-8	Sequence 8, Appli	C 641	19.8	63.9	474	8	US-10-425-115-154768	Sequence 154768, A
C 569	20	64.5	1978	6	US-10-104-047-1660	Sequence 1660, Ap	C 642	19.8	63.9	480	9	US-10-972-079-83590	Sequence 83590, A
C 570	20	64.5	1991	7	US-10-260-238-2421	Sequence 2421, Ap	C 643	19.8	63.9	484	3	US-09-918-995-491	Sequence 491, App
C 571	20	64.5	2148	8	US-10-856-499-33	Sequence 33, Appl	C 644	19.8	63.9	489	7	US-10-767-701-21098	Sequence 21098, A
C 572	20	64.5	2149	7	US-10-767-701-9631	Sequence 9631, Ap	C 645	19.8	63.9	493	3	US-09-918-995-1852	Sequence 1852, Ap
C 573	20	64.5	2218	7	US-10-767-701-13924	Sequence 13924, A	C 646	19.8	63.9	493	3	US-09-732-627A-2583	Sequence 2583, Ap
C 574	20	64.5	2268	6	US-10-450-763-19259	Sequence 19259, A	C 647	19.8	63.9	496	3	US-09-867-701-4790	Sequence 4790, Ap
C 575	20	64.5	2285	6	US-10-094-749-1312	Sequence 1312, Ap	C 648	19.8	63.9	498	9	US-10-972-079-83589	Sequence 83589, A
C 576	20	64.5	2424	6	US-10-156-761-3443	Sequence 3443, Ap	C 649	19.8	63.9	501	3	US-09-833-790-175	Sequence 175, App
C 577	20	64.5	2446	10	US-11-097-143-18131	Sequence 18131, A	C 650	19.8	63.9	501	7	US-10-021-323-6944	Sequence 6944, Ap
C 578	20	64.5	2479	6	US-10-108-260A-1966	Sequence 1966, Ap	C 651	19.8	63.9	503	8	US-10-425-115-134502	Sequence 134502, A
C 579	20	64.5	2527	8	US-10-921-110-1	Sequence 1, Appli	C 652	19.8	63.9	508	7	US-10-021-323-8562	Sequence 8562, Ap
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C 583	20	64.5	2741	8	US-10-425-115-54809	Sequence 54809, A	C 656	19.8	63.9	512	3	US-09-864-761-25347	Sequence 25347, A
C 584	20	64.5	2818	6	US-10-104-047-1830	Sequence 1830, Ap	C 657	19.8	63.9	517	7	US-10-021-323-4808	Sequence 4808, Ap
C 585	20	64.5	2873	7	US-10-437-963-44196	Sequence 44196, A	C 658	19.8	63.9	524	7	US-10-021-323-5487	Sequence 5487, Ap
C 586	20	64.5	2883	8	US-10-357-930-23230	Sequence 23230, A	C 659	19.8	63.9	529	7	US-10-767-701-25655	Sequence 25655, A
C 587	20	64.5	2883	8	US-10-357-930-24633	Sequence 24633, A	C 660	19.8	63.9	532	9	US-10-972-079-1920	Sequence 1920, Ap
C 588	20	64.5	2942	6	US-10-104-047-1534	Sequence 1534, Ap	C 661	19.8	63.9	535	8	US-10-767-795-4440	Sequence 4440, Ap
C 589	20	64.5	3178	10	US-11-097-143-42635	Sequence 42635, A	C 662	19.8	63.9	537	7	US-10-767-701-5832	Sequence 5832, Ap
C 590	20	64.5	3211	10	US-11-097-143-36658	Sequence 36658, A	C 663	19.8	63.9	543	7	US-10-021-323-4252	Sequence 4252, Ap
C 591	20	64.5	3244	4	US-09-925-065A-685020	Sequence 685020, A	C 664	19.8	63.9	546	7	US-10-437-963-101622	Sequence 101622, A
C 592	20	64.5	3342	8	US-10-425-115-54811	Sequence 54811, A	C 665	19.8	63.9	547	7	US-10-424-599-102833	Sequence 102833, A
C 593	20	64.5	3417	10	US-11-097-143-36661	Sequence 36661, A	C 666	19.8	63.9	548	7	US-10-767-701-22626	Sequence 22626, A
C 594	20	64.5	3548	7	US-10-437-963-70323	Sequence 70323, A	C 667	19.8	63.9	551	9	US-10-972-079-1919	Sequence 1919, Ap
C 595	20	64.5	3723	8	US-10-425-115-54812	Sequence 54812, A	C 668	19.8	63.9	555	4	US-09-925-065A-345773	Sequence 345773, A
C 596	20	64.5	5415	10	US-11-097-143-42634	Sequence 42634, A	C 669	19.8	63.9	555	4	US-09-925-065A-345774	Sequence 345774, A
C 597	20	64.5	6695	10	US-11-097-143-18130	Sequence 18130, A	C 670	19.8	63.9	559	3	US-09-770-153-434	Sequence 434, App
C 598	20	64.5	6913	5	US-11-097-143-11758	Sequence 11758, A	C 671	19.8	63.9	570	7	US-10-437-963-44186	Sequence 44186, A
C 599	20	64.5	20346	5	US-10-123-965B-1	Sequence 1, Appli	C 672	19.8	63.9	572	7	US-10-437-963-58954	Sequence 58954, A
C 600	20	64.5	20346	9	US-10-779-304-1	Sequence 1, Appli	C 673	19.8	63.9	574	7	US-10-021-323-10261	Sequence 10261, A
C 601	20	64.5	24066	10	US-11-097-143-11284	Sequence 11284, A	C 674	19.8	63.9	575	7	US-09-864-761-8628	Sequence 8628, Ap
C 602	20	64.5	24898	5	US-10-087-192-202	Sequence 202, App	C 675	19.8	63.9	577	8	US-10-425-115-72777	Sequence 72777, A
C 603	20	64.5	34460	5	US-10-087-192-115	Sequence 115, App	C 676	19.8	63.9	582	4	US-09-925-065A-183259	Sequence 183259, A
C 604	20	64.5	58448	6	US-10-017-161-1659	Sequence 1659, Ap	C 677	19.8	63.9	583	8	US-10-767-795-4441	Sequence 4441, Ap
C 605	20	64.5	67279	10	US-11-097-143-8743	Sequence 8743, Ap	C 678	19.8	63.9	583	8	US-10-357-930-1795	Sequence 1795, Ap
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C 607	20	64.5	150130	5	US-10-087-192-820	Sequence 820, App	C 680	19.8	63.9	591	4	US-09-925-065A-199194	Sequence 199194, A

C 681	19.8	63.9	597	7	US-10-767-701-26749	Sequence 26749, A	C 754	19.8	63.9	1400	10	US-11-060-756-4813	Sequence 4813, Ap
C 682	19.8	63.9	600	7	US-10-021-323-7197	Sequence 7197, Ap	755	19.8	63.9	1428	7	US-10-437-963-33334	Sequence 33334, A
C 683	19.8	63.9	600	9	US-10-972-079-1917	Sequence 1917, Ap	756	19.8	63.9	1452	7	US-10-716-359-9	Sequence 9, Appli
C 684	19.8	63.9	600	9	US-10-972-079-1918	Sequence 1918, Ap	C 757	19.8	63.9	1461	3	US-09-814-353-19305	Sequence 19305, A
C 685	19.8	63.9	600	9	US-10-972-079-39474	Sequence 39474, A	758	19.8	63.9	1464	7	US-10-437-963-42459	Sequence 42459, A
C 686	19.8	63.9	610	8	US-10-425-115-11861	Sequence 11861, A	759	19.8	63.9	1490	7	US-10-425-114-30164	Sequence 30164, A
C 687	19.8	63.9	631	4	US-09-925-065A-186145	Sequence 186145, A	C 760	19.8	63.9	1503	3	US-09-797-039-3	Sequence 3, Appli
C 688	19.8	63.9	615	8	US-10-425-115-123578	Sequence 123578, A	C 761	19.8	63.9	1503	6	US-10-170-789-3	Sequence 3, Appli
C 689	19.8	63.9	618	3	US-09-770-149-814	Sequence 814, App	C 762	19.8	63.9	1505	7	US-10-425-114-29691	Sequence 29691, A
C 690	19.8	63.9	628	8	US-10-425-115-99241	Sequence 99241, A	C 763	19.8	63.9	1505	7	US-10-437-963-45202	Sequence 45202, A
C 691	19.8	63.9	631	7	US-10-437-963-57292	Sequence 57292, A	C 764	19.8	63.9	1506	7	US-10-423-543-20	Sequence 20, Appl
C 692	19.8	63.9	633	7	US-10-437-963-44183	Sequence 44183, A	C 765	19.8	63.9	1512	3	US-09-764-891-8515	Sequence 8515, Ap
C 693	19.8	63.9	635	10	US-11-097-143-29315	Sequence 29315, A	C 766	19.8	63.9	1533	7	US-10-437-963-30140	Sequence 30140, A
C 694	19.8	63.9	639	8	US-10-437-963-76250	Sequence 76250, A	C 767	19.8	63.9	1556	6	US-10-104-047-779	Sequence 779, App
C 695	19.8	63.9	645	8	US-10-767-795-3453	Sequence 3453, Ap	C 768	19.8	63.9	1564	7	US-10-424-599-61979	Sequence 61979, A
C 696	19.8	63.9	652	6	US-10-264-237-33	Sequence 33, Appl	C 769	19.8	63.9	1573	7	US-10-424-599-73170	Sequence 73170, A
C 697	19.8	63.9	653	8	US-10-425-115-81016	Sequence 81016, A	C 770	19.8	63.9	1663	7	US-10-437-963-17462	Sequence 17462, A
C 698	19.8	63.9	677	8	US-10-357-930-32140	Sequence 32140, A	C 771	19.8	63.9	1668	7	US-10-716-359-8	Sequence 8, Appli
C 699	19.8	63.9	677	8	US-10-357-930-41078	Sequence 41078, A	C 772	19.8	63.9	1685	7	US-10-471-115-46	Sequence 46, Appl
C 700	19.8	63.9	677	8	US-10-357-930-41078	Sequence 41078, A	C 773	19.8	63.9	1689	7	US-10-425-114-4791	Sequence 4791, Ap
C 701	19.8	63.9	690	9	US-10-487-901-6626	Sequence 6626, Ap	C 774	19.8	63.9	1692	8	US-10-488-056-15	Sequence 15, Appl
C 702	19.8	63.9	722	3	US-10-487-901-2777	Sequence 2777, Ap	C 775	19.8	63.9	1699	7	US-10-437-963-15255	Sequence 15255, A
C 703	19.8	63.9	727	3	US-09-764-875-127	Sequence 127, App	C 776	19.8	63.9	1703	6	US-10-085-198-5	Sequence 5, Appli
C 704	19.8	63.9	732	5	US-10-027-632-23975	Sequence 23975, A	C 777	19.8	63.9	1716	7	US-10-437-963-59308	Sequence 59308, A
C 705	19.8	63.9	732	6	US-10-027-632-23975	Sequence 23975, A	C 778	19.8	63.9	1758	7	US-10-425-115-63706	Sequence 63706, A
C 706	19.8	63.9	737	7	US-10-425-114-31132	Sequence 31132, A	C 779	19.8	63.9	1758	9	US-10-631-467-412	Sequence 412, App
C 707	19.8	63.9	747	3	US-09-764-877-2387	Sequence 2387, Ap	C 780	19.8	63.9	1761	7	US-10-716-359-10	Sequence 10, Appl
C 708	19.8	63.9	747	6	US-10-242-515-2387	Sequence 2387, Ap	C 781	19.8	63.9	1773	10	US-11-097-143-42998	Sequence 42998, A
C 709	19.8	63.9	769	7	US-10-437-963-99719	Sequence 99719, A	C 782	19.8	63.9	1775	7	US-10-437-963-44055	Sequence 44055, A
C 710	19.8	63.9	777	8	US-10-425-115-110799	Sequence 110799, A	C 783	19.8	63.9	1780	6	US-10-108-2608-358	Sequence 358, App
C 711	19.8	63.9	780	7	US-10-437-963-98437	Sequence 98437, A	C 784	19.8	63.9	1806	7	US-10-437-963-6121	Sequence 6121, Ap
C 712	19.8	63.9	806	8	US-10-767-795-258	Sequence 258, App	C 785	19.8	63.9	1825	6	US-10-104-047-1618	Sequence 1618, Ap
C 713	19.8	63.9	815	7	US-10-425-114-16703	Sequence 16703, A	C 786	19.8	63.9	1825	6	US-10-437-963-38146	Sequence 38146, A
C 714	19.8	63.9	831	8	US-10-425-115-59916	Sequence 59916, A	C 787	19.8	63.9	1863	4	US-09-925-065A-684647	Sequence 684647, A
C 715	19.8	63.9	834	7	US-10-437-963-63722	Sequence 63722, A	C 788	19.8	63.9	1869	4	US-09-925-065A-684648	Sequence 684648, A
C 716	19.8	63.9	834	9	US-10-450-763-17263	Sequence 17263, A	C 789	19.8	63.9	1869	5	US-09-925-065A-684649	Sequence 684649, A
C 717	19.8	63.9	837	6	US-10-195-730-85	Sequence 85, Appl	C 790	19.8	63.9	1869	5	US-10-044-090-573	Sequence 573, App
C 718	19.8	63.9	837	7	US-10-799-747-85	Sequence 85, Appl	C 791	19.8	63.9	1885	8	US-10-641-643-1162	Sequence 1162, Ap
C 719	19.8	63.9	837	9	US-10-979-183-85	Sequence 83, Appl	C 792	19.8	63.9	1887	7	US-10-425-115-140792	Sequence 140792, A
C 720	19.8	63.9	852	7	US-10-437-963-32768	Sequence 32768, A	C 793	19.8	63.9	1889	5	US-10-087-192-2009	Sequence 2009, Ap
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C 723	19.8	63.9	855	6	US-10-159-563-75	Sequence 75, Appl	C 796	19.8	63.9	1927	7	US-10-263-929-3	Sequence 34277, A
C 724	19.8	63.9	871	5	US-10-027-632-166228	Sequence 166228, A	C 797	19.8	63.9	1929	7	US-10-425-114-34277	Sequence 3, Appli
C 725	19.8	63.9	871	6	US-10-027-632-166228	Sequence 166228, A	C 798	19.8	63.9	1929	8	US-10-425-115-87171	Sequence 87171, A
C 726	19.8	63.9	904	6	US-10-029-386-22985	Sequence 22985, A	C 799	19.8	63.9	1965	3	US-09-841-132-340	Sequence 340, App
C 727	19.8	63.9	914	7	US-10-425-114-31935	Sequence 31935, A	C 800	19.8	63.9	1965	8	US-10-872-155-340	Sequence 340, App
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C 729	19.8	63.9	956	2	US-08-816-011-52	Sequence 52, Appl	C 802	19.8	63.9	2016	5	US-10-027-632-97530	Sequence 97530, A
C 730	19.8	63.9	956	8	US-10-870-492-52	Sequence 52, Appl	C 803	19.8	63.9	2016	5	US-10-027-632-97531	Sequence 97531, A
C 731	19.8	63.9	970	8	US-10-425-115-30172	Sequence 30172, A	C 804	19.8	63.9	2016	5	US-10-027-632-98341	Sequence 98341, A
C 732	19.8	63.9	990	9	US-10-501-053-1	Sequence 1, Appli	C 805	19.8	63.9	2016	6	US-10-027-632-97530	Sequence 97530, A
C 733	19.8	63.9	1030	7	US-10-664-705-93	Sequence 93, Appl	C 806	19.8	63.9	2016	6	US-10-027-632-98341	Sequence 98341, A
C 734	19.8	63.9	1035	7	US-10-437-963-19765	Sequence 19765, A	C 807	19.8	63.9	2016	6	US-10-027-632-98341	Sequence 9, Appli
C 735	19.8	63.9	1075	7	US-10-287-971-23	Sequence 23, Appl	C 808	19.8	63.9	2096	8	US-10-648-823-9	Sequence 9, Appli
C 736	19.8	63.9	1077	7	US-10-437-963-38528	Sequence 38528, A	C 809	19.8	63.9	2096	9	US-10-972-052-9	Sequence 9, Appli
C 737	19.8	63.9	1089	7	US-10-287-971-21	Sequence 21, Appl	C 810	19.8	63.9	2099	3	US-09-861-097-9	Sequence 9, Appli
C 738	19.8	63.9	1142	9	US-10-450-763-6760	Sequence 6760, Ap	C 811	19.8	63.9	2099	3	US-09-861-098-9	Sequence 9, Appli
C 739	19.8	63.9	1144	7	US-10-425-114-16526	Sequence 16526, A	C 812	19.8	63.9	2099	3	US-09-861-098-9	Sequence 9, Appli
C 740	19.8	63.9	1170	7	US-10-716-359-12	Sequence 12, Appl	C 813	19.8	63.9	2099	3	US-09-861-098-9	Sequence 9, Appli
C 741	19.8	63.9	1179	5	US-10-027-632-263173	Sequence 263173, A	C 814	19.8	63.9	2099	3	US-09-861-098-9	Sequence 9, Appli
C 742	19.8	63.9	1179	6	US-10-027-632-263173	Sequence 263173, A	C 815	19.8	63.9	2107	10	US-11-097-143-41510	Sequence 41510, A
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C 744	19.8	63.9	1259	3	US-09-925-299-219	Sequence 219, App	C 817	19.8	63.9	2108	7	US-10-425-1294	Sequence 1294, Ap
C 745	19.8	63.9	1259	3	US-09-925-299-219	Sequence 219, App	C 818	19.8	63.9	2108	7	US-10-240-425-1294	Sequence 6111, Ap
C 746	19.8	63.9	1306	8	US-10-425-115-142964	Sequence 142964, A	C 819	19.8	63.9	2130	6	US-10-843-641A-6111	Sequence 904, App
C 747	19.8	63.9	1342	7	US-10-424-599-96928	Sequence 96928, A	C 820	19.8	63.9	2139	6	US-10-104-047-59	Sequence 59, Appl
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C 750	19.8	63.9	1386	7	US-10-716-359-11	Sequence 11, Appl	C 823	19.8	63.9	2196	5	US-10-116-802-263	Sequence 263, App
C 751	19.8	63.9	1389	7	US-10-437-963-63724	Sequence 63724, A	C 824	19.8	63.9	2224	6	US-10-172-118-1890	Sequence 1890, Ap
C 752	19.8	63.9	1400	10	US-11-060-756-540	Sequence 541, App	C 825	19.8	63.9	2224	6	US-10-172-118-1890	Sequence 1890, Ap
C 753	19.8	63.9	1400	10	US-11-060-756-541	Sequence 541, App	C 826	19.8	63.9	2231	7	US-10-424-599-438	Sequence 438, App
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ALIGNMENTS

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RESULT 1
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; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
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; SEQ ID NO 4
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4

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; Sequence 839692, Application US/09925065A

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; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
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RESULT 5
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; Sequence 4, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
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US-09-957-997-4

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RESULT 6
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; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
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; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
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US-09-957-997-1

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RESULT 7
US-10-415-607-4
; Sequence 4, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RTT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-4

Query Match      84.5%; Score 26.2; DB 9; Length 11186;
Best Local Similarity 90.3%; Pred. No. 6.8;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCTCCAG 31
Db 11072 GCTGCAGCTGCAGCCCTGCTCTCTCTCCAG 11102

RESULT 8
US-10-484-577-662/c
; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
```

```
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 662
; LENGTH: 96960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-662

Query Match      84.5%; Score 26.2; DB 8; Length 96960;
Best Local Similarity 90.3%; Pred. No. 5.7;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
Db 18155 GCTGCCGCTAGACCCACCTCTCTTCTCCAG 18125

RESULT 9
US-09-943-115A-1
; Sequence 1, Application US/09943115A
; Publication No. US20030017469A1
; GENERAL INFORMATION:
; APPLICANT: SEQUENOM, Inc.
; APPLICANT: Risinger, Carl
; APPLICANT: Andersson, Maria
; APPLICANT: Lewander, Tommy
; APPLICANT: Olaisson, Erik
; TITLE OF INVENTION: DETECTION OF CYP3A4 AND CYP2C9
; TITLE OF INVENTION: POLYMORPHISMS
; FILE REFERENCE: 52459-20021.00
; CURRENT APPLICATION NUMBER: US/09/943.115A
; CURRENT FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: UK 0021286.0
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-943-115A-1

Query Match      79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 29;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCGCCTGCTCTCTCTCTAG 1073

RESULT 10
US-10-146-575-3
; Sequence 3, Application US/10146575
; Publication No. US20030059800A1
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/10/146.575
; CURRENT FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US/09/144,367
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
```

```
US-10-146-575-3

Query Match      79.4%; Score 24.6; DB 5; Length 1345;
Best Local Similarity 87.1%; Pred. No. 29;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCGCCTGCTCTCTCTAG 1073

RESULT 11
US-10-085-612-3
; Sequence 3, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburg, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-3

Query Match      79.4%; Score 24.6; DB 5; Length 1345;
Best Local Similarity 87.1%; Pred. No. 29;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
Db 1043 GCTGCAGCTCCAGCGCCTGCTCTCTCTAG 1073

RESULT 12
US-10-415-607-1
; Sequence 1, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RFT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 12983
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-1

Query Match      79.4%; Score 24.6; DB 9; Length 12983;
Best Local Similarity 87.1%; Pred. No. 24;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | | | | | |
Db 12866 GCTGCAGCTGCAGCCCTGCTCTCTCTAG 12896

RESULT 13
US-10-121-960C-14
; Sequence 14, Application US/10121960C
; Publication No. US20030145341A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMA, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAWOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; FILE REFERENCE: 9400-0014 / PXB-014.US
; CURRENT APPLICATION NUMBER: US/10/121,960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 13035
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: human CYP3A4 gene locus
US-10-121-960C-14

Query Match 79.4%; Score 24.6; DB 6; Length 13035;
Best Local Similarity 87.1%; Pred. No. 24;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | | | | | |
Db 12868 GCTGCAGCTGCAGCCCTGCTCTCTCTAG 12898

RESULT 14
US-10-121-960C-17
; Sequence 17, Application US/10121960C
; Publication No. US20030145341A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMA, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAWOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; FILE REFERENCE: 9400-0014 / PXB-014.US
; CURRENT APPLICATION NUMBER: US/10/121,960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 15185
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CYP3A4-luc transgene
US-10-121-960C-17

Query Match 79.4%; Score 24.6; DB 6; Length 15185;
Best Local Similarity 87.1%; Pred. No. 24;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | | | | | |
Db 12868 GCTGCAGCTGCAGCCCTGCTCTCTCTAG 12898

RESULT 15
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 660
; LENGTH: 177531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-660

Query Match 79.4%; Score 24.6; DB 8; Length 177531;
Best Local Similarity 87.1%; Pred. No. 19;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | | | | | |
Db 15749 GCTGCAGCTATAGCCCTGCTCTCTCTCCAG 15779

RESULT 16
US-09-795-926-47/c
; Sequence 47, Application US/09795926
; Patent No. US20020098486A1
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Friedrich, Glenn
; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; APPLICANT: Walke, D. Wade
; APPLICANT: Wilganowski, Nathaniel L.
; APPLICANT: Hu, Yi
; APPLICANT: Kieke, James Alvin
; APPLICANT: Potter, David George
; TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THE SAME
; FILE REFERENCE: LEX-0144-USA
; CURRENT APPLICATION NUMBER: US/09/795,926
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/185,920
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: US 60/186,558
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,849
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 795
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-795-926-47

US-09-798-029-3

Query Match 74.8%; Score 23.2; DB 3; Length 1001;
Best Local Similarity 83.3%; Pred. No. 90;
Matches 25; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCCCA 30
Db 85 GCTTCAGCGCCAGCCACCTCTTCCCA 56

RESULT 21

US-11-097-143-32333/c
; Sequence 32333, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32333
; LENGTH: 186
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-32333

Query Match 74.2%; Score 23; DB 10; Length 186;
Best Local Similarity 83.9%; Pred. No. 1.2e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCCCA 31
Db 118 GCTCCAGCTCCAGTCCACCTCCATCTTCAG 88

RESULT 22

US-10-374-780A-1570/c
; Sequence 1570, Application US/10374780A
; Publication No. US20040019927A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Bradley K
; APPLICANT: Riechmann, Jose Luis
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Heard, Jacqueline E
; APPLICANT: Haake, Volker
; APPLICANT: Creelman, Robert A
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Adam, Luc J
; APPLICANT: Reuber, T. Lynne
; APPLICANT: Keddle, James
; APPLICANT: Broun, Pierre E

; APPLICANT: Pilgrim, Marsha L
; APPLICANT: Dubell III, Arnold T
; APPLICANT: Pineda, Omaira
; APPLICANT: Yu, Guo-Liang
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
; FILE REFERENCE: MBI-0047 CIP
; CURRENT APPLICATION NUMBER: US/10/374,780A
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: 09/837,944
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/310,847
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/934,455
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/336,049
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/338,692
; PRIOR FILING DATE: 2001-12-11
; PRIOR APPLICATION NUMBER: 10/171,468
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 10/225,066
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/225,067
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/225,068
; PRIOR FILING DATE: 2002-08-09
; NUMBER OF SEQ ID NOS: 2906
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1570
; LENGTH: 634
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Predicted polypeptide sequence is orthologous to GI331
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (574)..(574)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (587)..(587)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (590)..(590)
; OTHER INFORMATION: n is a, c, g, or t
US-10-374-780A-1570

Query Match 74.2%; Score 23; DB 7; Length 634;
Best Local Similarity 83.9%; Pred. No. 1.1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCCCA 31
Db 492 GCTGCTGCTGCTCTCTCTCTCTCTCCAG 462

RESULT 23

US-10-425-115-34631/c
; Sequence 34631, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 34631

; LENGTH: 634
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(634)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_131588C.1
US-10-425-115-34631

Query Match 74.2%; Score 23; DB 8; Length 634;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 492 GCTGCTGCTGCTCTCTCTCTCTCTCCAG 462

RESULT 24

US-10-450-763-4262/c
; Sequence 4262, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 4262
; LENGTH: 1185
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (1033)-(1182)
; OTHER INFORMATION: 94% homologous to Mus musculus Pro-Pol-dUTPase
; OTHER INFORMATION: polypeptidein, accession number Y12713, Smith-Waterman Score=246.
US-10-450-763-4262

Query Match 74.2%; Score 23; DB 9; Length 1185;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 430 GCTGCGCCGAGCTGCACCTCTCTCTCCAG 400

RESULT 25

US-10-437-963-28242
; Sequence 28242, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 28242
; LENGTH: 1200
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_3285C.1
US-10-437-963-28242

Query Match 74.2%; Score 23; DB 7; Length 1200;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 652 GCTCCAGCTCCAGCCCACTCTCTCTCCAG 682

RESULT 26

US-10-149-826-57/c
; Sequence 57, Application US/10149826
; Publication No. US20040224314A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: BURFORD, Neil
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: YANG, Junming
; APPLICANT: LU, Dying Aina M.
; APPLICANT: REDDY, Roopa
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: PI-0001 PCT
; CURRENT APPLICATION NUMBER: US/10/149,826
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/171,732; 60/176,148; 60/177,331
; PRIOR FILING DATE: 1999-12-10; 1999-12-22; 2000-01-14; 2000-01-21
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PERL Program
; SEQ ID NO 57
; LENGTH: 1370
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 2829053CB1
US-10-149-826-57

Query Match 74.2%; Score 23; DB 8; Length 1370;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 618 GCTGCGCCGAGCTGCACCTCTCTCTCCAG 588

RESULT 27

US-10-450-763-6761/c
; Sequence 6761, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31

US-10-488-056-2

Query Match 74.2%; Score 23; DB 8; Length 1947;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCACCTCTTCTCCAG 31
|||||
Db 710 GCTGCAGCTGCAGCTGCAGCCACTTGTCCAG 680

RESULT 32

US-11-097-143-323232/c
; Sequence 32332, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32332
; LENGTH: 2186
; TYPE: DNA
; ORGANISM: DROSOPHILA

US-11-097-143-32332

Query Match 74.2%; Score 23; DB 10; Length 2186;
Best Local Similarity 83.9%; Pred. No. 99;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCACCTCTTCTCCAG 31
|||||
Db 1118 GCTCCAGCTCCAGCTCCACCTCCATCTTCAG 1088

RESULT 33

US-10-437-963-98283
; Sequence 98283, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 98283
; LENGTH: 2279
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_96203C.1
US-10-437-963-98283

Query Match 74.2%; Score 23; DB 7; Length 2279;
Best Local Similarity 83.9%; Pred. No. 98;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCACCTCTTCTCCAG 31
|||||
Db 781 GCTCTAGCTCCAGCCCCAGCTCTGTCTCCAG 811

RESULT 34

US-10-437-963-28630
; Sequence 28630, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 28630
; LENGTH: 4098
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_3320C.1
US-10-437-963-28630

Query Match 74.2%; Score 23; DB 7; Length 4098;
Best Local Similarity 83.9%; Pred. No. 94;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCACCTCTTCTCCAG 31
|||||
Db 676 GCTCCAGCTCCAGCCCCAGCTCTGTTCAG 706

RESULT 35

US-11-097-143-1960
; Sequence 1960, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19

```
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1960
; LENGTH: 15405
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-1960

Query Match          74.2%; Score 23; DB 10; Length 15405;
Best Local Similarity 83.9%; Pred. No. 84;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 7176 GCTGCAGCTGCAGCTCCAGCACCAGCTCCAG 7206

RESULT 36
US-10-087-192-31/c
; Sequence 31, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; PRIOR FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 98606
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(98606)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-31

Query Match          74.2%; Score 23; DB 5; Length 98606;
Best Local Similarity 83.9%; Pred. No. 73;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 29338 GCTCCAGCTCCAGCTCCAGCACCCTCTCTCTG 29308

RESULT 37
US-09-925-302-132/c
; Sequence 132, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
```

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; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 567
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (567)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-302-132

Query Match          72.9%; Score 22.6; DB 3; Length 567;
Best Local Similarity 80.6%; Pred. No. 1.5e+02;
Matches 25; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 469 GCTGTCGCCGAGCTGCACCTCTCTCTCCAG 439

RESULT 38
US-09-925-302-132/c
; Sequence 132, Application US/09925302
; Publication No. US20030064072A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 567
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (567)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-302-132

Query Match          72.9%; Score 22.6; DB 3; Length 567;
Best Local Similarity 80.6%; Pred. No. 1.5e+02;
Matches 25; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 469 GCTGTCGCCGAGCTGCACCTCTCTCTCCAG 439

RESULT 39
US-10-479-638-6/c
; Sequence 6, Application US/10479638
; Publication No. US20040210956A1
; GENERAL INFORMATION:
; APPLICANT: Don A. Roth
; APPLICANT: Randolph V. Lewis
; APPLICANT: The University of Wyoming
; TITLE OF INVENTION: Expression of Spider Silk Proteins in Higher Plants
; FILE REFERENCE: WYO.02-0004US
```

```
; CURRENT APPLICATION NUMBER: US/10/479,638
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: PCT/US02/18256
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/296,184
; PRIOR FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 845
; TYPE: DNA
; ORGANISM: Zorocrates sp.
; US-10-479-638-6

Query Match          72.9%; Score 22.6; DB 8; Length 845;
Best Local Similarity 86.2%; Pred. No. 1.5e+02;
Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGCCACCTCTCTCC 29
    ||||| ||||| ||||| ||||| |||||
Db 182 GCTGCTGCTGCTGCCGCGACCTCCATCTCC 154

RESULT 40
US-10-488-056-27/c
; Sequence 27, Application US/10488056
; Publication No. US20050010035A1
; GENERAL INFORMATION:
; APPLICANT: University of Wyoming
; TITLE OF INVENTION: Spider Silk Protein Encoding Nucleic
; TITLE OF INVENTION: Acid Sequences, Polypeptides, Antibodies And Methods Of Use
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: UMYO 02-001
; CURRENT APPLICATION NUMBER: US/10/488,056
; CURRENT FILING DATE: 2004-02-27
; PRIOR APPLICATION NUMBER: PCT/US02/09663
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: 60/315,529
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 27
; LENGTH: 845
; TYPE: DNA
; ORGANISM: Zorocrates sp.
; US-10-488-056-27

Query Match          72.9%; Score 22.6; DB 8; Length 845;
Best Local Similarity 86.2%; Pred. No. 1.5e+02;
Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGCCACCTCTCTCC 29
    ||||| ||||| ||||| ||||| |||||
Db 182 GCTGCTGCTGCTGCCGCGACCTCCATCTCC 154

RESULT 41
US-10-357-930-24433/c
; Sequence 24433, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endegde, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25724
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 5, 50, 63, 94, 122, 130, 168, 172, 1099, 1100
; OTHER INFORMATION: n = A,T,C or G
; US-10-357-930-25724

Query Match          72.9%; Score 22.6; DB 8; Length 1100;
Best Local Similarity 83.3%; Pred. No. 1.4e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24433
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 5, 50, 63, 94, 122, 130, 168, 172, 1099, 1100
; OTHER INFORMATION: n = A,T,C or G
; US-10-357-930-24433

Query Match          72.9%; Score 22.6; DB 8; Length 1100;
Best Local Similarity 83.3%; Pred. No. 1.4e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGCCACCTCTCTCC 30
    ||||| ||||| ||||| ||||| |||||
Db 85 GCTTCAGCGCCAGCCCGCCACCTCTCTCC 56

RESULT 42
US-10-357-930-25724/c
; Sequence 25724, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endegde, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25724
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 5, 50, 63, 94, 122, 130, 168, 172, 1099, 1100
; OTHER INFORMATION: n = A,T,C or G
; US-10-357-930-25724

Query Match          72.9%; Score 22.6; DB 8; Length 1100;
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; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17824
; LENGTH: 2645
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-17824

Query Match          71.6%; Score 22.2; DB 10; Length 2645;
Best Local Similarity 88.9%; Pred. No. 1.8e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      4 GCAGCTGCAGCCCGACCTCTCTCCCA 30
      ||||||| ||| |||||||
Db      321 GCAGCTGCAGCGCACTCTCTCTCCA 295

RESULT 47
US-11-097-143-15799/c
; Sequence 15799, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15799
; LENGTH: 11205
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-15799

Query Match          71.6%; Score 22.2; DB 10; Length 11205;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY      4 GCAGCTGCAGCCCGACCTCTCTCTCCCA 30
      ||||||| ||| |||||||
Db      9991 GCAGCTGCAGCGCACTCTCTCTCCA 9965

RESULT 48

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```

US-09-764-891-2198/c
; Sequence 2198, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2198
; LENGTH: 402
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (327)
; OTHER INFORMATION: n equals a.t.g, or c
; NAME/KEY: SITE
; LOCATION: (377)
; OTHER INFORMATION: n equals a.t.g, or c
US-09-764-891-2198

Query Match          71.0%; Score 22; DB 3; Length 402;
Best Local Similarity 83.3%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      2 CTCGAGCTGCAGCCCGACCTCTCTCTCCAG 31
      ||||||| ||| |||||||
Db      98 CTCGAGCTGCAGCCCGACCTCTCTCTCCAG 69

RESULT 49
US-10-260-238-5291
; Sequence 5291, Application US/10260238
; Publication No. US20040016025A1
; GENERAL INFORMATION:
; APPLICANT: Budworth, Paul R.
; APPLICANT: Moughamer, Todd G.
; APPLICANT: Brigg, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Rumiya
; APPLICANT: Kreps, Joel
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricke, Darrell
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: PROMOTERS FOR REGULATION OF PLANT EXPRESSION
; FILE REFERENCE: 60111-NP
; CURRENT APPLICATION NUMBER: US/10/260,238
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/325,448
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 6077
; SEQ ID NO 5291
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Zea mays
US-10-260-238-5291

Query Match          71.0%; Score 22; DB 7; Length 450;
Best Local Similarity 83.3%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCCGACCTCTCTCTCCA 30
      ||||||| ||| |||||||

```

Db 137 GCTGCAGCGCCGACCATCTCTCTCCA 166

RESULT 50
US-10-767-701-31475/c
; Sequence 31475, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 31475
; LENGTH: 564
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(564)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: 18069289
US-10-767-701-31475

Query Match 71.0%; Score 22; DB 7; Length 564;
Best Local Similarity 83.3%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGACCATCTCTCTCCA 30
|||||
Db 380 GCTGCAGCTGCAGCCGACCATCTCTCTCA 351
|||||

Search completed: January 11, 2006, 04:39:01
Job time : 625.071 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 629.707 Seconds
(without alignments)
39.844 Million cell updates/sec

Title: US-09-869-169C-19_COPY_1180_1210

Perfect score: 31

Sequence: 1 gctgcagctgcagccaccactctcttcag 31

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications_NA_New.*

- 1: /cgn2_6/prodata/2/pubpna/US08_NEW_PUB.seq.*
- 2: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq.*
- 3: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq.*
- 4: /cgn2_6/prodata/2/pubpna/PCT_NEW_PUB.seq.*
- 5: /cgn2_6/prodata/2/pubpna/US05_NEW_PUB.seq.*
- 6: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq.*
- 7: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq.*
- 8: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq2.*
- 9: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq3.*
- 10: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	23.6	76.1	795	7	US-11-134-241-47
C 2	23	74.2	3332	6	US-10-821-234-830
C 3	21.4	69.0	201	6	US-10-995-561-14370
C 4	21.4	69.0	201	6	US-10-995-561-14385
C 5	21.4	69.0	10259	7	US-11-136-527-2837
C 6	21.4	69.0	96128	6	US-10-995-561-13197
C 7	21.2	68.4	1200	6	US-10-927-641-36
C 8	21	67.7	89	6	US-10-310-9148-10056
C 9	21	67.7	1035	6	US-10-750-185-56691
C 10	21	67.7	1035	6	US-10-750-623-56691
C 11	21	67.7	1750	6	US-10-750-185-47557
C 12	21	67.7	1750	6	US-10-750-623-47557
C 13	21	67.7	4301	7	US-11-136-527-3816
C 14	21	67.7	14619	7	US-11-128-061-745
C 15	20.6	66.5	1400	7	US-11-136-527-8100
C 16	20.6	66.5	1506	7	US-11-134-563-7
C 17	20.6	66.5	2098	7	US-11-136-527-4004
C 18	20.4	65.8	916	6	US-10-750-185-49752
C 19	20.4	65.8	916	6	US-10-750-623-49752
C 20	20.4	65.8	1916	6	US-10-750-185-30841
C 21	20.4	65.8	1916	6	US-10-750-623-30841
C 22	20.4	65.8	2784	7	US-11-000-463-220
C 23	20.4	65.8	164810	7	US-11-121-086-4

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c 98	19	61.3	3400	6	US-10-750-623-31857	Sequence 31857, A	c 171	18.4	59.4	23	6	US-10-310-914A-995615	Sequence 995615, A
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c 103	19	61.3	199321	7	US-11-121-086-10	Sequence 10, Appl	c 176	18.4	59.4	350	7	US-11-128-061-5654	Sequence 5654, App
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c 107	18.8	60.6	201	6	US-10-995-561-12180	Sequence 12180, A	c 180	18.4	59.4	999	6	US-10-131-826A-395	Sequence 395, App
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c 111	18.8	60.6	201	6	US-10-995-561-12285	Sequence 12285, A	c 184	18.4	59.4	1288	6	US-10-750-623-55232	Sequence 55232, A
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c 114	18.8	60.6	201	6	US-10-995-561-12387	Sequence 12387, A	c 187	18.4	59.4	1335	6	US-10-750-623-48926	Sequence 48926, A
c 115	18.8	60.6	201	6	US-10-995-561-62387	Sequence 62387, A	c 188	18.4	59.4	1400	7	US-11-136-527-6758	Sequence 6758, App
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c 123	18.8	60.6	1412	7	US-11-186-284-154	Sequence 154, App	c 196	18.4	59.4	3143	6	US-10-750-185-64874	Sequence 64874, A
c 124	18.8	60.6	1463	6	US-10-750-185-62459	Sequence 62459, A	c 197	18.4	59.4	3143	6	US-10-750-623-64874	Sequence 64874, A
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c 136	18.8	60.6	3507	6	US-10-509-422-1	Sequence 1, Appl	c 209	18.4	59.4	15234	7	US-11-136-527-306	Sequence 306, App
c 137	18.8	60.6	3704	6	US-10-509-422-3	Sequence 3, Appl	c 210	18.4	59.4	17112	7	US-11-176-253-2	Sequence 2, Appl
c 138	18.8	60.6	3936	7	US-11-000-688-752	Sequence 752, App	c 211	18.4	59.4	18592	7	US-11-157-743-1	Sequence 1, Appl
c 139	18.8	60.6	5133	7	US-11-080-026-1	Sequence 1, Appl	c 212	18.4	59.4	24054	6	US-10-995-561-13373	Sequence 13373, A
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c 142	18.8	60.6	5614	7	US-11-136-527-3578	Sequence 3578, App	c 215	18.4	59.4	35893	6	US-10-860-436-2	Sequence 2, Appl
c 143	18.8	60.6	6683	6	US-10-995-561-473	Sequence 473, App	c 216	18.4	59.4	56952	7	US-11-124-368A-2909	Sequence 2909, App
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c 146	18.8	60.6	6971	6	US-10-995-561-474	Sequence 474, App	c 219	18.4	59.4	161994	7	US-11-112-908-57	Sequence 57, Appl
c 147	18.8	60.6	6990	6	US-10-995-561-397	Sequence 397, App	c 220	18.4	59.4	191684	7	US-11-121-086-2	Sequence 2, Appl
c 148	18.8	60.6	7107	6	US-10-995-561-395	Sequence 395, App	c 221	18.4	59.4	191797	7	US-11-121-086-13	Sequence 13, Appl
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c 151	18.8	60.6	7285	6	US-10-995-561-398	Sequence 398, App	c 224	18.2	58.7	82	6	US-10-310-914A-733	Sequence 733, App
c 152	18.8	60.6	7321	6	US-10-995-561-396	Sequence 396, App	c 225	18.2	58.7	201	6	US-10-995-561-38746	Sequence 38746, A
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251	18.2	58.7	1278	7	US-11-000-463-95	Sequence 95, Appl	324	18	58.1	782	7	US-11-112-908-461	Sequence 461, App
252	18.2	58.7	1400	7	US-11-136-527-6579	Sequence 6579, Ap	325	18	58.1	970	6	US-10-750-185-52300	Sequence 52300, A
253	18.2	58.7	1400	7	US-11-136-527-7060	Sequence 7060, Ap	326	18	58.1	970	6	US-10-750-623-52300	Sequence 52300, A
254	18.2	58.7	1407	7	US-11-136-527-3824	Sequence 3824, Ap	327	18	58.1	1227	7	US-11-150-845-11	Sequence 11, Appl
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259	18.2	58.7	1634	6	US-10-750-623-45804	Sequence 45804, A	332	18	58.1	1581	6	US-10-750-185-47608	Sequence 47608, A
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261	18.2	58.7	1677	6	US-10-750-623-57998	Sequence 57998, A	334	18	58.1	1677	6	US-10-512-109-10	Sequence 10, Appl
262	18.2	58.7	1766	6	US-10-967-648A-3	Sequence 3, Appl	335	18	58.1	1743	7	US-11-122-144-9	Sequence 9, Appl
263	18.2	58.7	1866	6	US-10-955-054A-5	Sequence 5, Appl	336	18	58.1	1792	6	US-11-000-688-18329	Sequence 18329, Ap
264	18.2	58.7	1891	6	US-10-750-185-61490	Sequence 61490, A	337	18	58.1	1893	6	US-10-750-185-58977	Sequence 58977, A
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266	18.2	58.7	1898	7	US-11-136-527-2690	Sequence 2690, Ap	339	18	58.1	1914	7	US-11-150-845-23	Sequence 23, Appl
267	18.2	58.7	2010	6	US-10-821-234-248	Sequence 248, App	340	18	58.1	1962	7	US-11-150-845-21	Sequence 21, Appl
268	18.2	58.7	2077	7	US-11-136-527-548	Sequence 548, App	341	18	58.1	2151	7	US-11-150-845-15	Sequence 15, Appl
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270	18.2	58.7	2174	6	US-10-750-623-60819	Sequence 60819, A	343	18	58.1	3417	7	US-11-080-991-47	Sequence 47, Appl
271	18.2	58.7	2401	6	US-10-955-054A-137	Sequence 137, App	344	18	58.1	4246	7	US-11-059-814-19	Sequence 19, Appl
272	18.2	58.7	2421	7	US-11-110-082-17	Sequence 17, Appl	345	18	58.1	4328	6	US-10-947-249-74	Sequence 74, Appl
273	18.2	58.7	2446	7	US-11-136-527-3071	Sequence 3071, Ap	346	18	58.1	5244	6	US-10-750-185-39144	Sequence 39144, A
274	18.2	58.7	2555	7	US-11-136-527-2964	Sequence 2964, Ap	347	18	58.1	5244	6	US-10-750-623-39144	Sequence 39144, A
275	18.2	58.7	2712	6	US-10-821-234-8	Sequence 8, Appl	348	18	58.1	8910	6	US-10-821-234-281	Sequence 281, App
276	18.2	58.7	2740	6	US-10-955-054A-101	Sequence 101, App	349	18	58.1	8923	7	US-11-000-688-1582	Sequence 1582, App
277	18.2	58.7	2886	6	US-10-504-599A-15	Sequence 15, Appl	350	18	58.1	8978	6	US-10-995-561-174	Sequence 174, App
278	18.2	58.7	2919	7	US-10-821-234-735	Sequence 735, App	351	18	58.1	9028	6	US-10-995-561-171	Sequence 171, App
279	18.2	58.7	2943	7	US-11-000-688-1535	Sequence 1535, Ap	352	18	58.1	26008	6	US-10-949-720-391	Sequence 391, App
280	18.2	58.7	3030	7	US-11-128-061-3297	Sequence 3297, Ap	353	18	58.1	128938	6	US-10-775-169-345	Sequence 345, App
281	18.2	58.7	3133	7	US-11-000-463-108	Sequence 108, App	354	18	58.1	150038	7	US-11-121-086-23	Sequence 23, Appl
282	18.2	58.7	3195	7	US-11-108-172-114	Sequence 114, Ap	355	18	58.1	15515	7	US-11-112-908-42	Sequence 42, Appl
283	18.2	58.7	3198	6	US-10-909-125-793	Sequence 793, App	356	18	58.1	156544	7	US-11-121-086-81	Sequence 81, Appl
284	18.2	58.7	3198	7	US-11-000-688-965	Sequence 965, App	357	18	58.1	177623	7	US-11-112-908-41	Sequence 41, Appl
285	18.2	58.7	3308	6	US-10-750-185-51682	Sequence 51682, A	358	18	58.1	187986	6	US-10-995-561-13552	Sequence 13552, A
286	18.2	58.7	3308	6	US-10-750-623-51682	Sequence 51682, A	359	18	58.1	268986	6	US-10-933-025-22	Sequence 22, Appl
287	18.2	58.7	3424	6	US-10-775-169-111	Sequence 111, App	360	18	58.1	340000	7	US-11-102-978-3	Sequence 3, Appl
288	18.2	58.7	3753	7	US-11-136-527-2483	Sequence 2483, Ap	361	17.8	57.4	142	6	US-10-789-273-25	Sequence 25, Appl
289	18.2	58.7	3933	7	US-11-136-527-4041	Sequence 4041, Ap	362	17.8	57.4	201	6	US-10-995-561-53297	Sequence 53297, A
290	18.2	58.7	3985	7	US-11-000-688-358	Sequence 358, App	363	17.8	57.4	201	6	US-10-995-561-53480	Sequence 53480, A
291	18.2	58.7	4803	7	US-11-136-527-586	Sequence 586, App	364	17.8	57.4	201	6	US-10-995-561-53496	Sequence 53496, A
292	18.2	58.7	5221	6	US-10-821-234-367	Sequence 367, App	365	17.8	57.4	201	6	US-10-995-561-53557	Sequence 53557, A
293	18.2	58.7	5256	7	US-11-103-957-46	Sequence 46, Appl	366	17.8	57.4	201	6	US-10-995-561-54193	Sequence 54193, A
294	18.2	58.7	5293	7	US-11-000-688-1101	Sequence 1101, Ap	367	17.8	57.4	201	6	US-10-995-561-66228	Sequence 66228, A
295	18.2	58.7	5371	6	US-10-821-234-274	Sequence 274, App	368	17.8	57.4	201	6	US-10-995-561-66562	Sequence 66562, A
296	18.2	58.7	5390	6	US-10-849-438-4	Sequence 4, Appl	369	17.8	57.4	201	6	US-10-995-561-66589	Sequence 66589, A
297	18.2	58.7	5801	7	US-11-000-463-580	Sequence 580, App	370	17.8	57.4	201	6	US-10-995-561-66663	Sequence 66663, A
298	18.2	58.7	5801	7	US-11-000-463-580	Sequence 580, App	371	17.8	57.4	201	6	US-10-995-561-74026	Sequence 74026, A
299	18.2	58.7	6021	7	US-11-136-527-274	Sequence 274, App	372	17.8	57.4	201	6	US-10-995-561-74035	Sequence 74035, A
300	18.2	58.7	14896	7	US-11-000-688-946	Sequence 946, App	373	17.8	57.4	201	6	US-10-995-561-74036	Sequence 74036, A
301	18.2	58.7	15457	7	US-11-136-527-2809	Sequence 2809, Ap	374	17.8	57.4	201	6	US-10-995-561-74107	Sequence 74107, A
302	18.2	58.7	15510	6	US-10-995-561-13281	Sequence 13281, A	375	17.8	57.4	201	6	US-10-995-561-78346	Sequence 78346, A
303	18.2	58.7	17517	7	US-11-136-527-3650	Sequence 3650, Ap	376	17.8	57.4	201	6	US-10-995-561-78470	Sequence 78470, A
304	18.2	58.7	27032	6	US-10-995-561-13468	Sequence 13468, A	377	17.8	57.4	201	6	US-10-995-561-79212	Sequence 79212, A
305	18.2	58.7	35770	6	US-10-995-561-13296	Sequence 13296, A	378	17.8	57.4	201	6	US-10-995-561-79299	Sequence 79299, A
306	18.2	58.7	42823	7	US-11-066-725-18	Sequence 18, Appl	379	17.8	57.4	201	6	US-10-995-561-83629	Sequence 83629, A
307	18.2	58.7	148220	7	US-11-121-086-90	Sequence 90, Appl	380	17.8	57.4	201	6	US-10-995-561-83879	Sequence 83879, A
308	18.2	58.7	166639	7	US-11-121-086-52	Sequence 52, Appl	381	17.8	57.4	414	6	US-10-789-273-36	Sequence 36, Appl
309	18.2	58.7	169495	7	US-11-121-086-61	Sequence 61, Appl	382	17.8	57.4	414	6	US-10-789-273-37	Sequence 37, Appl
310	18.2	58.7	176503	7	US-11-121-086-53	Sequence 53, Appl	383	17.8	57.4	415	6	US-11-108-172-599	Sequence 599, App
311	18.2	58.7	197096	7	US-11-121-086-107	Sequence 107, App	384	17.8	57.4	423	6	US-10-821-234-495	Sequence 495, App
312	18.2	58.7	1691140	7	US-11-091-018-1	Sequence 1, Appl	385	17.8	57.4	589	6	US-10-750-185-46149	Sequence 46149, A
313	18	58.1	201	6	US-10-995-561-3431	Sequence 3431, Ap	386	17.8	57.4	589	6	US-10-750-623-46149	Sequence 46149, A
314	18	58.1	201	6	US-10-995-561-3452	Sequence 3452, Ap	387	17.8	57.4	600	7	US-11-136-527-7399	Sequence 7399, Ap
315	18	58.1	201	6	US-10-995-561-5851	Sequence 5851, Ap	388	17.8	57.4	658	6	US-10-750-185-60618	Sequence 60618, A

C 389	17.8	57.4	658	6	US-10-750-623-60618	Sequence 60618, A	c 462	17.8	57.4	13395	6	US-10-995-561-13452	Sequence 13452, A
C 390	17.8	57.4	773	7	US-11-110-082-3	Sequence 3, Appli	463	17.8	57.4	13357	6	US-10-995-561-13481	Sequence 13481, A
C 391	17.8	57.4	809	6	US-10-750-185-41976	Sequence 41976, A	464	17.8	57.4	18949	6	US-10-995-561-13482	Sequence 13482, A
C 392	17.8	57.4	809	6	US-10-750-623-41976	Sequence 41976, A	465	17.8	57.4	27509	6	US-10-995-561-13319	Sequence 13319, A
C 393	17.8	57.4	831	7	US-11-110-082-2	Sequence 2, Appli	466	17.8	57.4	27952	6	US-10-995-561-13312	Sequence 13312, A
C 394	17.8	57.4	837	6	US-10-750-185-33261	Sequence 33261, A	c 467	17.8	57.4	28786	6	US-10-995-561-13224	Sequence 13224, A
C 395	17.8	57.4	837	6	US-10-750-623-33261	Sequence 33261, A	468	17.8	57.4	35101	6	US-10-995-561-13315	Sequence 13315, A
C 396	17.8	57.4	933	6	US-10-750-185-40946	Sequence 40946, A	469	17.8	57.4	40000	6	US-10-995-561-13309	Sequence 13309, A
C 397	17.8	57.4	933	6	US-10-750-623-40946	Sequence 40946, A	470	17.8	57.4	53331	6	US-10-995-561-13476	Sequence 13476, A
C 398	17.8	57.4	1032	6	US-10-750-185-37002	Sequence 37002, A	471	17.8	57.4	63984	7	US-11-121-086-26	Sequence 26, Appl
C 399	17.8	57.4	1032	6	US-10-750-623-37002	Sequence 37002, A	472	17.8	57.4	70513	6	US-10-995-561-13368	Sequence 13368, A
C 400	17.8	57.4	1063	6	US-10-750-185-39904	Sequence 39904, A	473	17.8	57.4	92600	6	US-10-857-780-1	Sequence 1, Appli
C 401	17.8	57.4	1063	6	US-10-750-623-39904	Sequence 39904, A	c 474	17.8	57.4	131855	7	US-11-112-908-29	Sequence 29, Appl
C 402	17.8	57.4	1145	6	US-10-947-249-119	Sequence 119, App	c 475	17.8	57.4	137000	6	US-10-515-538-11	Sequence 11, Appl
C 403	17.8	57.4	1163	6	US-10-750-185-38381	Sequence 38381, A	c 476	17.8	57.4	150173	7	US-11-112-908-26	Sequence 26, Appl
C 404	17.8	57.4	1163	6	US-10-750-623-38381	Sequence 38381, A	477	17.8	57.4	150450	7	US-11-112-908-54	Sequence 54, Appl
C 405	17.8	57.4	1240	7	US-11-112-908-481	Sequence 481, App	478	17.8	57.4	160226	7	US-11-121-086-29	Sequence 29, Appl
C 406	17.8	57.4	1347	6	US-10-750-185-34767	Sequence 34767, A	c 479	17.8	57.4	166020	7	US-11-112-908-28	Sequence 28, Appl
C 407	17.8	57.4	1347	6	US-10-750-623-34767	Sequence 34767, A	c 480	17.8	57.4	171247	7	US-11-112-908-27	Sequence 27, Appl
C 408	17.8	57.4	1400	7	US-11-136-527-7815	Sequence 7815, Ap	c 481	17.8	57.4	235033	7	US-11-157-389-1	Sequence 1, Appli
C 409	17.8	57.4	1400	7	US-11-128-061-3650	Sequence 3650, Ap	c 482	17.8	57.4	237326	7	US-11-157-389-2	Sequence 2, Appli
C 410	17.8	57.4	1404	6	US-10-750-185-56117	Sequence 56117, A	c 483	17.8	57.4	415117	6	US-10-995-561-13274	Sequence 13274, A
C 411	17.8	57.4	1404	6	US-10-750-623-56117	Sequence 56117, A	c 484	17.6	56.8	62	7	US-11-029-003-67	Sequence 67, Appl
C 412	17.8	57.4	1407	7	US-11-128-061-3	Sequence 8, Appli	c 485	17.6	56.8	90	7	US-11-029-003-70	Sequence 70, Appl
C 413	17.8	57.4	1450	7	US-11-140-417-3	Sequence 3, Appli	c 486	17.6	56.8	201	6	US-10-995-561-3441	Sequence 3441, Ap
C 414	17.8	57.4	1453	6	US-10-750-185-54685	Sequence 54685, A	c 487	17.6	56.8	201	6	US-10-995-561-3462	Sequence 3462, Ap
C 415	17.8	57.4	1453	6	US-10-750-623-54685	Sequence 54685, A	c 488	17.6	56.8	201	6	US-10-995-561-24663	Sequence 24663, A
C 416	17.8	57.4	1463	6	US-10-750-185-62812	Sequence 62812, A	c 489	17.6	56.8	201	6	US-10-995-561-78061	Sequence 78061, A
C 417	17.8	57.4	1463	6	US-10-750-623-62812	Sequence 62812, A	c 490	17.6	56.8	507	7	US-11-108-172-155	Sequence 155, App
C 418	17.8	57.4	1578	6	US-10-750-185-63278	Sequence 63278, A	c 491	17.6	56.8	598	6	US-10-750-185-1991	Sequence 1991, Ap
C 419	17.8	57.4	1578	6	US-10-750-623-63278	Sequence 63278, A	c 492	17.6	56.8	598	6	US-10-750-623-1991	Sequence 1991, Ap
C 420	17.8	57.4	1628	6	US-10-750-185-42180	Sequence 42180, A	c 493	17.6	56.8	1068	6	US-10-750-185-39158	Sequence 39158, A
C 421	17.8	57.4	1628	6	US-10-750-623-42180	Sequence 42180, A	c 494	17.6	56.8	1068	6	US-10-750-623-39158	Sequence 39158, A
C 422	17.8	57.4	1693	6	US-10-750-185-31767	Sequence 31767, A	c 495	17.6	56.8	1530	6	US-10-750-185-56478	Sequence 56478, A
C 423	17.8	57.4	1693	6	US-10-750-623-31767	Sequence 31767, A	c 496	17.6	56.8	1530	6	US-10-750-623-56478	Sequence 56478, A
C 424	17.8	57.4	1738	6	US-10-750-185-40789	Sequence 40789, A	c 497	17.6	56.8	1584	6	US-10-750-185-54885	Sequence 54885, A
C 425	17.8	57.4	1738	6	US-10-750-623-40789	Sequence 40789, A	c 498	17.6	56.8	1584	6	US-10-750-623-54885	Sequence 54885, A
C 426	17.8	57.4	1758	7	US-11-150-845-37	Sequence 37, Appl	c 499	17.6	56.8	1585	6	US-10-750-185-63469	Sequence 63469, A
C 427	17.8	57.4	1758	6	US-10-750-185-46336	Sequence 46336, A	c 500	17.6	56.8	1585	6	US-10-750-623-63469	Sequence 63469, A
C 428	17.8	57.4	1794	6	US-10-750-623-46336	Sequence 46336, A	c 501	17.6	56.8	1996	6	US-10-750-185-28668	Sequence 28668, A
C 429	17.8	57.4	1795	6	US-10-750-185-55173	Sequence 55173, A	c 502	17.6	56.8	1996	6	US-10-750-623-28668	Sequence 28668, A
C 430	17.8	57.4	1795	6	US-10-750-623-55173	Sequence 55173, A	c 503	17.6	56.8	2005	6	US-10-750-185-62429	Sequence 62429, A
C 431	17.8	57.4	1872	6	US-10-453-372-1125	Sequence 1125, Ap	c 504	17.6	56.8	2005	6	US-10-750-623-62429	Sequence 62429, A
C 432	17.8	57.4	1872	6	US-10-453-372-1125	Sequence 1125, Ap	c 505	17.6	56.8	2090	6	US-10-420-192-7	Sequence 7, Appli
C 433	17.8	57.4	2094	6	US-10-750-185-58442	Sequence 58442, A	c 506	17.6	56.8	2338	7	US-11-136-527-2898	Sequence 2898, Ap
C 434	17.8	57.4	2094	6	US-10-750-623-58442	Sequence 58442, A	c 507	17.6	56.8	3415	6	US-10-995-561-86	Sequence 86, Appl
C 435	17.8	57.4	2353	6	US-10-750-185-40522	Sequence 40522, A	c 508	17.6	56.8	3580	6	US-10-995-561-87	Sequence 87, Appl
C 436	17.8	57.4	2353	6	US-10-750-623-40522	Sequence 40522, A	c 509	17.6	56.8	4270	7	US-11-150-845-39	Sequence 39, Appl
C 437	17.8	57.4	2380	7	US-11-136-527-3376	Sequence 3376, Ap	c 510	17.6	56.8	11438	6	US-10-821-234-224	Sequence 234, App
C 438	17.8	57.4	2479	7	US-11-136-527-3376	Sequence 3376, Ap	c 511	17.6	56.8	11612	6	US-10-995-561-499	Sequence 499, App
C 439	17.8	57.4	2492	6	US-10-821-234-150	Sequence 150, App	c 512	17.6	56.8	11684	6	US-10-995-561-498	Sequence 498, App
C 440	17.8	57.4	2518	6	US-10-750-185-36838	Sequence 36838, A	c 513	17.6	56.8	18394	6	US-10-995-561-13367	Sequence 13367, A
C 441	17.8	57.4	2518	6	US-10-750-623-36838	Sequence 36838, A	c 514	17.6	56.8	54946	6	US-10-995-561-13479	Sequence 13479, A
C 442	17.8	57.4	2655	6	US-10-873-325-8	Sequence 8, Appli	c 515	17.6	56.8	90572	7	US-11-124-368A-1390	Sequence 2300, Ap
C 443	17.8	57.4	2808	6	US-11-136-527-1123	Sequence 1123, Ap	c 516	17.6	56.8	141121	6	US-10-995-561-13262	Sequence 13262, A
C 444	17.8	57.4	2808	6	US-11-136-527-2544	Sequence 2544, Ap	c 517	17.6	56.8	1559497	7	US-11-112-908-61	Sequence 61, Appl
C 445	17.8	57.4	3332	7	US-11-128-061-703	Sequence 703, App	c 518	17.6	56.8	175100	7	US-11-121-086-21	Sequence 21, Appl
C 446	17.8	57.4	3671	6	US-10-131-826A-141	Sequence 141, App	c 519	17.6	56.8	187786	6	US-10-995-561-13474	Sequence 13474, A
C 447	17.8	57.4	3829	7	US-11-136-527-1883	Sequence 1883, Ap	c 520	17.6	56.8	200628	7	US-11-121-086-62	Sequence 62, Appl
C 448	17.8	57.4	4229	6	US-10-821-234-238	Sequence 238, App	c 521	17.6	56.8	387780	6	US-10-995-561-13259	Sequence 1, Appli
C 449	17.8	57.4	4500	6	US-10-453-372-1127	Sequence 1127, Ap	c 522	17.6	56.8	1080000	6	US-10-928-446A-1	Sequence 181, App
C 450	17.8	57.4	4551	6	US-10-230-824-7	Sequence 7, Appli	c 523	17.6	56.8	1080000	6	US-10-928-446A-181	Sequence 183, App
C 451	17.8	57.4	4598	6	US-10-955-054A-71	Sequence 71, Appl	c 524	17.6	56.8	1080000	6	US-10-928-446A-183	Sequence 185, App
C 452	17.8	57.4	4847	7	US-11-136-527-2614	Sequence 2614, Ap	c 525	17.6	56.8	1080000	6	US-10-928-446A-185	Sequence 187, App
C 453	17.8	57.4	5119	7	US-11-108-528-81	Sequence 81, Appl	c 526	17.6	56.8	1080000	6	US-10-928-446A-187	Sequence 189, App
C 454	17.8	57.4	5196	7	US-11-150-888-11	Sequence 11, Appl	c 527	17.6	56.8	1080000	6	US-10-928-446A-189	Sequence 191, App
C 455	17.8	57.4	5534	6	US-11-040-472-11	Sequence 11, Appl	c 528	17.6	56.8	1080000	6	US-10-928-446A-191	Sequence 193, App
C 456	17.8	57.4	5595	6	US-10-955-054A-11	Sequence 11, Appl	c 529	17.6	56.8	1080000	6	US-10-928-446A-193	Sequence 195, App
C 457	17.8	57.4	5941	7	US-11-136-527-275	Sequence 275, App	c 530	17.6	56.8	1080000	6	US-10-928-446A-195	Sequence 197, App
C 458	17.8	57.4	7653	7	US-11-136-527-2934	Sequence 2934, Ap	c 531	17.6	56.8	1080000	6	US-10-928-446A-197	Sequence 199, App
C 459	17.8	57.4	7787	6	US-10-947-249-195	Sequence 195, App	c 532	17.6	56.8	1080000	6	US-10-928-446A-199	Sequence 201, App
C 460	17.8	57.4	8420	7	US-11-136-527-262	Sequence 262, App	c 533	17.6	56.8	1080000	6	US-10-928-446A-201	Sequence 205604,
C 461	17.8	57.4	8599	7	US-11-136-527-3033	Sequence 3033, Ap	c 534	17.4	56.1	19	6	US-10-310-914A-995604	

c 535	17.4	56.1	23	6	US-10-310-914A-588500	Sequence 588500,	608	17.4	56.1	3207	6	US-10-995-561-487	Sequence 487, App
c 536	17.4	56.1	31	6	US-10-310-914A-695746	Sequence 695746,	609	17.4	56.1	3303	6	US-10-995-561-486	Sequence 486, App
c 537	17.4	56.1	71	6	US-10-310-914A-4275	Sequence 4275, Ap	610	17.4	56.1	3373	6	US-10-995-561-481	Sequence 481, App
c 538	17.4	56.1	201	6	US-10-995-561-18249	Sequence 18249, A	611	17.4	56.1	3442	6	US-10-995-561-480	Sequence 480, App
c 539	17.4	56.1	201	6	US-10-995-561-35013	Sequence 35013, A	612	17.4	56.1	3538	6	US-10-995-561-484	Sequence 484, App
c 540	17.4	56.1	201	6	US-10-995-561-35032	Sequence 35032, A	c 613	17.4	56.1	3583	6	US-10-770-726-22	Sequence 22, Appl
c 541	17.4	56.1	201	6	US-10-995-561-35041	Sequence 35041, A	c 614	17.4	56.1	3682	6	US-10-750-185-47213	Sequence 47213, A
c 542	17.4	56.1	201	6	US-10-995-561-49236	Sequence 49236, A	c 615	17.4	56.1	3682	6	US-10-750-623-47213	Sequence 47213, A
c 543	17.4	56.1	201	6	US-10-995-561-57933	Sequence 57933, A	c 616	17.4	56.1	3901	7	US-11-136-527-343	Sequence 343, App
c 544	17.4	56.1	201	6	US-10-995-561-57942	Sequence 57942, A	c 617	17.4	56.1	4121	7	US-11-000-688-1268	Sequence 1268, Ap
c 545	17.4	56.1	201	6	US-10-995-561-57999	Sequence 57999, A	c 618	17.4	56.1	4393	7	US-11-145-035-39	Sequence 39, Appl
c 546	17.4	56.1	201	6	US-10-995-561-62038	Sequence 62038, A	c 619	17.4	56.1	4718	7	US-11-145-035-19	Sequence 19, Appl
c 547	17.4	56.1	201	7	US-11-124-368A-7167	Sequence 7167, Ap	c 620	17.4	56.1	4721	7	US-11-145-035-37	Sequence 37, Appl
c 548	17.4	56.1	260	7	US-11-128-061-13557	Sequence 13557, A	c 621	17.4	56.1	4870	7	US-11-136-527-311	Sequence 311, App
c 549	17.4	56.1	260	7	US-11-128-061-2634	Sequence 2634, Ap	c 622	17.4	56.1	5012	7	US-11-136-527-2289	Sequence 2289, Ap
c 550	17.4	56.1	260	7	US-11-128-061-6276	Sequence 6276, Ap	c 623	17.4	56.1	5220	7	US-11-110-204-1	Sequence 1, Appl
c 551	17.4	56.1	324	6	US-10-821-234-827	Sequence 827, App	c 624	17.4	56.1	5292	6	US-10-775-169-310	Sequence 330, App
c 552	17.4	56.1	366	7	US-11-128-061-1206	Sequence 1206, Ap	c 625	17.4	56.1	12648	6	US-10-995-561-13271	Sequence 13271, A
c 553	17.4	56.1	366	7	US-11-128-061-4848	Sequence 4848, Ap	c 626	17.4	56.1	18930	6	US-10-995-561-13213	Sequence 13213, A
c 554	17.4	56.1	510	7	US-11-136-527-788	Sequence 788, App	c 627	17.4	56.1	20317	6	US-10-995-561-13460	Sequence 13460, A
c 555	17.4	56.1	510	7	US-11-136-527-4884	Sequence 4884, Ap	c 628	17.4	56.1	21777	7	US-11-027-964-2	Sequence 2, Appl
c 556	17.4	56.1	510	7	US-11-128-061-5671	Sequence 5671, Ap	c 629	17.4	56.1	27902	6	US-10-995-561-13462	Sequence 13462, A
c 557	17.4	56.1	577	7	US-11-128-061-2029	Sequence 2029, Ap	c 630	17.4	56.1	31657	6	US-10-995-561-13334	Sequence 13334, A
c 558	17.4	56.1	600	7	US-11-128-061-4727	Sequence 4727, Ap	c 631	17.4	56.1	31936	7	US-11-124-368A-2891	Sequence 2891, Ap
c 559	17.4	56.1	600	7	US-11-128-061-4728	Sequence 4728, Ap	c 632	17.4	56.1	32387	7	US-11-124-368A-2887	Sequence 2887, Ap
c 560	17.4	56.1	655	6	US-10-821-234-5	Sequence 5, Appl	c 633	17.4	56.1	52520	6	US-10-995-561-13360	Sequence 13360, A
c 561	17.4	56.1	748	6	US-10-750-185-46795	Sequence 46795, A	c 634	17.4	56.1	54767	6	US-10-995-561-13357	Sequence 13357, A
c 562	17.4	56.1	748	6	US-10-750-623-46795	Sequence 46795, A	c 635	17.4	56.1	57917	6	US-10-995-561-13357	Sequence 13357, A
c 563	17.4	56.1	896	6	US-10-750-185-34104	Sequence 34104, A	c 636	17.4	56.1	65931	6	US-10-995-561-13299	Sequence 13299, A
c 564	17.4	56.1	896	6	US-10-750-623-34104	Sequence 34104, A	c 637	17.4	56.1	65931	6	US-10-995-561-13254	Sequence 13254, A
c 565	17.4	56.1	946	6	US-10-623-155-118	Sequence 118, App	c 638	17.4	56.1	153442	7	US-11-121-086-27	Sequence 27, Appl
c 566	17.4	56.1	975	6	US-10-750-185-55805	Sequence 55805, A	c 639	17.4	56.1	153376	7	US-11-121-086-5	Sequence 5, Appl
c 567	17.4	56.1	975	6	US-10-750-623-55805	Sequence 55805, A	c 640	17.4	56.1	172111	7	US-11-121-086-28	Sequence 28, Appl
c 568	17.4	56.1	1232	6	US-10-750-185-32918	Sequence 32918, A	c 641	17.2	55.5	23	6	US-10-310-914A-816211	Sequence 816211, A
c 569	17.4	56.1	1232	6	US-10-750-623-32918	Sequence 32918, A	c 642	17.2	55.5	61	6	US-10-310-914A-14960	Sequence 14960, A
c 570	17.4	56.1	1239	6	US-10-750-185-60232	Sequence 60232, A	c 643	17.2	55.5	129	6	US-10-310-914A-9091	Sequence 9091, Ap
c 571	17.4	56.1	1239	6	US-10-750-623-60232	Sequence 60232, A	c 644	17.2	55.5	201	6	US-10-995-561-12409	Sequence 12409, Ap
c 572	17.4	56.1	1276	6	US-10-750-185-45208	Sequence 45208, A	c 645	17.2	55.5	201	6	US-10-995-561-12416	Sequence 12416, A
c 573	17.4	56.1	1276	6	US-10-750-623-45208	Sequence 45208, A	c 646	17.2	55.5	201	6	US-10-995-561-12426	Sequence 12426, A
c 574	17.4	56.1	1318	6	US-10-750-185-39192	Sequence 39192, A	c 647	17.2	55.5	201	6	US-10-995-561-12433	Sequence 12433, A
c 575	17.4	56.1	1318	6	US-10-750-623-39192	Sequence 39192, A	c 648	17.2	55.5	201	6	US-10-995-561-12459	Sequence 12459, A
c 576	17.4	56.1	1400	7	US-11-136-527-4407	Sequence 4407, Ap	c 649	17.2	55.5	201	6	US-10-995-561-12463	Sequence 12463, A
c 577	17.4	56.1	1430	6	US-10-750-185-55817	Sequence 55817, A	c 650	17.2	55.5	201	6	US-10-995-561-12477	Sequence 12477, A
c 578	17.4	56.1	1430	6	US-10-750-623-55817	Sequence 55817, A	c 651	17.2	55.5	201	6	US-10-995-561-12480	Sequence 12480, A
c 579	17.4	56.1	1433	7	US-11-090-351-1	Sequence 1, Appl	c 652	17.2	55.5	201	6	US-10-995-561-12511	Sequence 12511, A
c 580	17.4	56.1	1501	6	US-10-750-185-27823	Sequence 27823, A	c 653	17.2	55.5	201	6	US-10-995-561-12515	Sequence 12515, A
c 581	17.4	56.1	1501	6	US-10-750-623-27823	Sequence 27823, A	c 654	17.2	55.5	201	6	US-10-995-561-12529	Sequence 12529, A
c 582	17.4	56.1	1569	6	US-10-750-185-26043	Sequence 26043, A	c 655	17.2	55.5	201	6	US-10-995-561-12533	Sequence 12533, A
c 583	17.4	56.1	1569	6	US-10-750-623-26043	Sequence 26043, A	c 656	17.2	55.5	201	6	US-10-995-561-12536	Sequence 12536, A
c 584	17.4	56.1	1602	7	US-11-147-047-7	Sequence 7, Appl	c 657	17.2	55.5	201	6	US-10-995-561-12543	Sequence 12543, A
c 585	17.4	56.1	1685	6	US-10-750-185-53897	Sequence 53897, A	c 658	17.2	55.5	201	6	US-10-995-561-12546	Sequence 12546, A
c 586	17.4	56.1	1685	6	US-10-750-623-53897	Sequence 53897, A	c 659	17.2	55.5	201	6	US-10-995-561-12549	Sequence 12549, A
c 587	17.4	56.1	1706	6	US-10-750-185-35324	Sequence 35324, A	c 660	17.2	55.5	201	6	US-10-995-561-16722	Sequence 16722, A
c 588	17.4	56.1	1706	6	US-10-750-623-35324	Sequence 35324, A	c 661	17.2	55.5	201	6	US-10-995-561-24082	Sequence 24082, A
c 589	17.4	56.1	1716	6	US-10-775-169-201	Sequence 201, App	c 662	17.2	55.5	201	6	US-10-995-561-24085	Sequence 24085, A
c 590	17.4	56.1	1764	7	US-11-136-527-3050	Sequence 3050, Ap	c 663	17.2	55.5	201	6	US-10-995-561-24675	Sequence 24675, A
c 591	17.4	56.1	1898	7	US-11-136-527-2690	Sequence 2690, Ap	c 664	17.2	55.5	201	6	US-10-995-561-26658	Sequence 26658, A
c 592	17.4	56.1	1902	7	US-11-128-061-655	Sequence 655, App	c 665	17.2	55.5	201	6	US-10-995-561-26834	Sequence 26834, A
c 593	17.4	56.1	1917	6	US-10-750-185-48879	Sequence 48879, A	c 666	17.2	55.5	201	6	US-10-995-561-62721	Sequence 62721, A
c 594	17.4	56.1	1917	6	US-10-750-623-48879	Sequence 48879, A	c 667	17.2	55.5	201	6	US-10-995-561-62912	Sequence 62912, A
c 595	17.4	56.1	2018	6	US-10-750-185-58634	Sequence 58634, A	c 668	17.2	55.5	201	6	US-10-995-561-62941	Sequence 62941, A
c 596	17.4	56.1	2018	6	US-10-750-623-58634	Sequence 58634, A	c 669	17.2	55.5	201	6	US-10-995-561-62948	Sequence 62948, A
c 597	17.4	56.1	2100	7	US-11-128-061-1085	Sequence 1085, Ap	c 670	17.2	55.5	201	6	US-10-995-561-62975	Sequence 62975, A
c 598	17.4	56.1	2218	7	US-11-000-688-516	Sequence 516, App	c 671	17.2	55.5	201	7	US-11-124-368A-2582	Sequence 2582, Ap
c 599	17.4	56.1	2238	6	US-10-750-185-25244	Sequence 25244, A	c 672	17.2	55.5	201	7	US-11-124-368A-18240	Sequence 18240, A
c 600	17.4	56.1	2238	6	US-10-750-623-25244	Sequence 25244, A	c 673	17.2	55.5	264	7	US-11-060-659-21	Sequence 21, Appl
c 601	17.4	56.1	2323	6	US-10-821-234-23	Sequence 23, Appl	c 674	17.2	55.5	354	6	US-10-802-796-618	Sequence 618, App
c 602	17.4	56.1	2358	6	US-10-995-561-485	Sequence 485, App	c 675	17.2	55.5	392	7	US-11-128-061-3341	Sequence 3341, Ap
c 603	17.4	56.1	2395	7	US-11-102-240-139	Sequence 139, App	c 676	17.2	55.5	392	7	US-11-128-061-6983	Sequence 6983, Ap
c 604	17.4	56.1	2527	7	US-11-128-061-1086	Sequence 1086, Ap	c 677	17.2	55.5	438	7	US-11-128-061-2200	Sequence 2200, Ap
c 605	17.4	56.1	2527	7	US-11-128-061-1086	Sequence 1086, Ap	c 678	17.2	55.5	438	7	US-11-128-061-5842	Sequence 5842, Ap
c 606	17.4	56.1	3138	6	US-10-995-561-483	Sequence 483, App	c 679	17.2	55.5	524	7	US-11-128-061-2211	Sequence 2211, Ap
c 607	17.4	56.1	3197	7	US-11-136-527-2265	Sequence 2265, Ap	c 680	17.2	55.5	524	7	US-11-128-061-5853	Sequence 5853, Ap

c 681	17.2	55.5	580	7	US-11-128-061-1251	Sequence 1251, Ap	c 754	17.2	55.5	1816	6	US-10-750-185-32013	Sequence 32013, A
c 682	17.2	55.5	580	7	US-11-128-061-1417	Sequence 1417, Ap	c 755	17.2	55.5	1816	6	US-10-750-623-32013	Sequence 32013, A
c 683	17.2	55.5	580	7	US-11-128-061-4893	Sequence 4893, Ap	c 756	17.2	55.5	1818	6	US-10-750-185-34191	Sequence 34191, A
c 684	17.2	55.5	580	7	US-11-128-061-5059	Sequence 5059, Ap	c 757	17.2	55.5	1818	6	US-10-750-623-34191	Sequence 34191, A
c 685	17.2	55.5	588	6	US-10-750-185-4331	Sequence 431, App	c 758	17.2	55.5	1858	6	US-10-821-234-34191	Sequence 340, App
c 686	17.2	55.5	598	6	US-10-750-623-4331	Sequence 431, App	c 759	17.2	55.5	1874	6	US-10-750-185-30132	Sequence 30132, A
c 687	17.2	55.5	600	6	US-10-750-185-3839	Sequence 3839, Ap	c 760	17.2	55.5	1874	6	US-10-750-623-30132	Sequence 30132, A
c 688	17.2	55.5	600	6	US-10-750-623-3839	Sequence 3839, Ap	c 761	17.2	55.5	1888	6	US-10-453-372-267	Sequence 267, App
c 689	17.2	55.5	600	7	US-11-136-527-5554	Sequence 5554, Ap	c 762	17.2	55.5	1947	6	US-10-750-185-51012	Sequence 51012, A
c 690	17.2	55.5	600	7	US-11-128-061-7018	Sequence 7018, Ap	c 763	17.2	55.5	1947	6	US-10-750-623-51012	Sequence 51012, A
c 691	17.2	55.5	600	7	US-11-128-061-7030	Sequence 7030, Ap	c 764	17.2	55.5	2008	6	US-10-750-185-35465	Sequence 35465, A
c 692	17.2	55.5	974	6	US-10-750-185-52193	Sequence 52193, A	c 765	17.2	55.5	2008	6	US-10-750-623-35465	Sequence 35465, A
c 693	17.2	55.5	974	6	US-10-750-623-52193	Sequence 52193, A	c 766	17.2	55.5	2037	7	US-11-136-527-997	Sequence 997, App
c 694	17.2	55.5	984	6	US-10-750-185-54474	Sequence 54474, A	c 767	17.2	55.5	2081	6	US-10-750-185-32318	Sequence 32318, A
c 695	17.2	55.5	984	6	US-10-750-185-54474	Sequence 54474, A	c 768	17.2	55.5	2081	6	US-10-750-623-32318	Sequence 32318, A
c 696	17.2	55.5	1012	7	US-10-750-623-54474	Sequence 54474, A	c 769	17.2	55.5	2085	6	US-10-750-185-29834	Sequence 29834, A
c 697	17.2	55.5	1012	7	US-11-136-527-1458	Sequence 1458, Ap	c 770	17.2	55.5	2085	6	US-10-750-623-29834	Sequence 29834, A
c 698	17.2	55.5	1071	6	US-10-517-339-2333	Sequence 233, App	c 771	17.2	55.5	2092	6	US-10-955-054A-1	Sequence 41, Appl
c 699	17.2	55.5	1236	6	US-10-467-657-2713	Sequence 2713, Ap	c 772	17.2	55.5	2185	7	US-11-136-527-3481	Sequence 3481, Ap
c 700	17.2	55.5	1245	7	US-11-115-868-1	Sequence 1, Appl	c 773	17.2	55.5	2226	6	US-10-750-185-58767	Sequence 58767, A
c 701	17.2	55.5	1245	7	US-11-165-305-1	Sequence 79, Appl	c 774	17.2	55.5	2226	6	US-10-623-372-263	Sequence 263, App
c 702	17.2	55.5	1249	6	US-10-955-054A-79	Sequence 376, App	c 775	17.2	55.5	2227	6	US-10-453-372-263	Sequence 263, App
c 703	17.2	55.5	1277	7	US-11-128-061-3376	Sequence 3376, Ap	c 776	17.2	55.5	2251	7	US-11-128-061-10	Sequence 10, Appl
c 704	17.2	55.5	1305	6	US-10-821-234-701	Sequence 701, App	c 777	17.2	55.5	2276	6	US-10-131-826A-9	Sequence 9, Appl
c 705	17.2	55.5	1321	6	US-10-750-185-51504	Sequence 51504, A	c 778	17.2	55.5	2295	7	US-11-136-527-690	Sequence 690, App
c 706	17.2	55.5	1321	6	US-10-750-623-51504	Sequence 51504, A	c 779	17.2	55.5	2312	7	US-11-136-527-3389	Sequence 3389, Ap
c 707	17.2	55.5	1340	6	US-10-750-185-48946	Sequence 48946, A	c 780	17.2	55.5	2354	6	US-10-750-185-62735	Sequence 62735, A
c 708	17.2	55.5	1340	6	US-10-750-623-48946	Sequence 48946, A	c 781	17.2	55.5	2354	6	US-10-750-623-62735	Sequence 62735, A
c 709	17.2	55.5	1347	6	US-10-750-185-53365	Sequence 53365, A	c 782	17.2	55.5	2388	7	US-11-218-986-1	Sequence 1, Appl
c 710	17.2	55.5	1366	6	US-10-750-623-53365	Sequence 53365, A	c 783	17.2	55.5	2396	6	US-10-821-234-315	Sequence 315, App
c 711	17.2	55.5	1400	7	US-11-136-527-6264	Sequence 6264, Ap	c 784	17.2	55.5	2472	6	US-10-750-185-56549	Sequence 56549, A
c 712	17.2	55.5	1400	7	US-11-128-061-3652	Sequence 3652, Ap	c 785	17.2	55.5	2472	6	US-10-750-623-56549	Sequence 56549, A
c 713	17.2	55.5	1400	7	US-11-128-061-4007	Sequence 4007, Ap	c 786	17.2	55.5	2538	7	US-11-128-061-3388	Sequence 3388, Ap
c 714	17.2	55.5	1438	6	US-10-750-185-28486	Sequence 28486, A	c 787	17.2	55.5	2574	6	US-10-750-185-46896	Sequence 46896, A
c 715	17.2	55.5	1438	6	US-10-750-623-28486	Sequence 28486, A	c 788	17.2	55.5	2574	6	US-10-750-623-46896	Sequence 46896, A
c 716	17.2	55.5	1469	6	US-10-995-561-488	Sequence 488, App	c 789	17.2	55.5	2581	6	US-10-750-185-57545	Sequence 57545, A
c 717	17.2	55.5	1480	6	US-10-750-185-35745	Sequence 35745, A	c 790	17.2	55.5	2581	6	US-10-750-623-57545	Sequence 57545, A
c 718	17.2	55.5	1480	6	US-10-750-623-35745	Sequence 35745, A	c 791	17.2	55.5	2599	6	US-10-750-185-61828	Sequence 61828, A
c 719	17.2	55.5	1498	7	US-11-136-527-2168	Sequence 2168, Ap	c 792	17.2	55.5	2599	6	US-10-750-623-61828	Sequence 61828, A
c 720	17.2	55.5	1499	7	US-11-136-527-79	Sequence 79, Appl	c 793	17.2	55.5	2668	6	US-10-750-185-55553	Sequence 55553, A
c 721	17.2	55.5	1539	6	US-10-955-054A-90	Sequence 90, Appl	c 794	17.2	55.5	2668	6	US-10-750-623-55553	Sequence 55553, A
c 722	17.2	55.5	1540	6	US-10-750-185-63243	Sequence 63243, A	c 795	17.2	55.5	2715	7	US-11-124-368A-138	Sequence 138, App
c 723	17.2	55.5	1540	6	US-10-750-623-63243	Sequence 63243, A	c 796	17.2	55.5	2745	7	US-11-128-061-365	Sequence 365, App
c 724	17.2	55.5	1567	6	US-10-750-185-28009	Sequence 28009, A	c 797	17.2	55.5	2745	6	US-10-821-234-365	Sequence 365, App
c 725	17.2	55.5	1567	6	US-10-750-623-28009	Sequence 28009, A	c 798	17.2	55.5	2762	6	US-10-750-185-34426	Sequence 34426, A
c 726	17.2	55.5	1581	7	US-11-124-368A-37	Sequence 37, Appl	c 799	17.2	55.5	2762	6	US-10-750-623-34426	Sequence 34426, A
c 727	17.2	55.5	1607	6	US-10-750-185-60039	Sequence 60039, A	c 800	17.2	55.5	2834	7	US-11-000-688-949	Sequence 949, App
c 728	17.2	55.5	1607	6	US-10-750-623-60039	Sequence 60039, A	c 801	17.2	55.5	2865	6	US-10-750-185-41541	Sequence 41541, A
c 729	17.2	55.5	1608	6	US-10-750-185-31906	Sequence 31906, A	c 802	17.2	55.5	2865	6	US-10-750-623-41541	Sequence 41541, A
c 730	17.2	55.5	1608	6	US-10-750-623-31906	Sequence 31906, A	c 803	17.2	55.5	2985	6	US-10-750-185-43750	Sequence 43750, A
c 731	17.2	55.5	1614	6	US-10-750-185-62982	Sequence 62982, A	c 804	17.2	55.5	2985	6	US-10-750-623-43750	Sequence 43750, A
c 732	17.2	55.5	1614	6	US-10-750-623-62982	Sequence 62982, A	c 805	17.2	55.5	3001	6	US-10-770-726-32	Sequence 32, Appl
c 733	17.2	55.5	1617	7	US-11-124-368A-36	Sequence 36, Appl	c 806	17.2	55.5	3016	6	US-10-750-185-49452	Sequence 49452, A
c 734	17.2	55.5	1634	6	US-10-750-185-54936	Sequence 54936, A	c 807	17.2	55.5	3016	6	US-10-750-623-49452	Sequence 49452, A
c 735	17.2	55.5	1634	6	US-10-750-623-54936	Sequence 54936, A	c 808	17.2	55.5	3109	6	US-10-821-234-63	Sequence 63, Appl
c 736	17.2	55.5	1638	7	US-11-124-368A-32	Sequence 32, Appl	c 809	17.2	55.5	3122	6	US-10-750-185-33623	Sequence 33623, A
c 737	17.2	55.5	1638	7	US-11-124-368A-34	Sequence 34, Appl	c 810	17.2	55.5	3122	6	US-10-750-623-33623	Sequence 33623, A
c 738	17.2	55.5	1639	6	US-10-750-185-45432	Sequence 45432, A	c 811	17.2	55.5	3138	6	US-10-995-561-483	Sequence 483, App
c 739	17.2	55.5	1639	6	US-10-750-623-45432	Sequence 45432, A	c 812	17.2	55.5	3155	6	US-10-750-185-55409	Sequence 55409, A
c 740	17.2	55.5	1674	7	US-11-124-368A-30	Sequence 30, Appl	c 813	17.2	55.5	3155	6	US-10-750-623-55409	Sequence 55409, A
c 741	17.2	55.5	1679	6	US-10-750-185-59104	Sequence 59104, A	c 814	17.2	55.5	3200	6	US-10-750-185-36043	Sequence 36043, A
c 742	17.2	55.5	1679	6	US-10-750-623-59104	Sequence 59104, A	c 815	17.2	55.5	3200	6	US-10-750-623-36043	Sequence 36043, A
c 743	17.2	55.5	1713	7	US-11-124-368A-35	Sequence 35, Appl	c 816	17.2	55.5	3207	6	US-10-995-561-487	Sequence 487, App
c 744	17.2	55.5	1713	6	US-10-821-234-438	Sequence 438, App	c 817	17.2	55.5	3303	6	US-10-995-561-486	Sequence 486, App
c 745	17.2	55.5	1729	6	US-10-750-185-59567	Sequence 59567, A	c 818	17.2	55.5	3373	6	US-10-995-561-481	Sequence 481, App
c 746	17.2	55.5	1729	6	US-10-750-623-59567	Sequence 59567, A	c 819	17.2	55.5	3442	6	US-10-995-561-480	Sequence 480, App
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c 748	17.2	55.5	1770	7	US-11-124-368A-31	Sequence 31, Appl	c 821	17.2	55.5	3538	6	US-10-995-561-484	Sequence 484, App
c 749	17.2	55.5	1773	6	US-10-750-185-55445	Sequence 55445, A	c 822	17.2	55.5	3647	6	US-10-775-169-71	Sequence 71, Appl
c 750	17.2	55.5	1773	6	US-10-750-623-55445	Sequence 55445, A	c 823	17.2	55.5	3814	6	US-10-750-185-27033	Sequence 27033, A
c 751	17.2	55.5	1812	6	US-10-955-054A-128	Sequence 128, App	c 824	17.2	55.5	3814	6	US-10-750-623-27033	Sequence 27033, A
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c 828	17.2	55.5	4103	6	US-10-453-372-259	Sequence 259, App	c 901	17	54.8	577	7	US-11-128-061-2875	Sequence 2875, Ap
c 829	17.2	55.5	4111	6	US-11-000-688-527	Sequence 527, App	c 902	17	54.8	577	7	US-11-128-061-2875	Sequence 527, Ap
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c 832	17.2	55.5	4130	6	US-10-775-169-80	Sequence 80, Appl	c 905	17	54.8	600	7	US-11-136-527-5767	Sequence 5767, Ap
c 833	17.2	55.5	4130	6	US-10-821-234-324	Sequence 324, App	c 906	17	54.8	600	7	US-11-128-061-4031	Sequence 4031, Ap
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c 837	17.2	55.5	5706	7	US-11-062-554A-519	Sequence 519, App	c 910	17	54.8	784	7	US-11-136-527-1671	Sequence 1671, Ap
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c 844	17.2	55.5	7860	6	US-10-453-372-265	Sequence 265, App	c 917	17	54.8	1136	6	US-10-750-623-39289	Sequence 39289, A
c 845	17.2	55.5	7892	6	US-10-453-372-257	Sequence 257, App	c 918	17	54.8	1183	6	US-10-995-561-504	Sequence 504, App
c 846	17.2	55.5	7892	6	US-10-453-372-279	Sequence 279, App	c 919	17	54.8	1236	6	US-10-750-185-27355	Sequence 27355, A
c 847	17.2	55.5	8599	7	US-11-136-527-3033	Sequence 3033, Ap	c 920	17	54.8	1236	6	US-10-750-623-27355	Sequence 27355, A
c 848	17.2	55.5	13672	7	US-11-055-035-2	Sequence 2, Appli	c 921	17	54.8	1311	6	US-10-750-185-56560	Sequence 56560, A
c 849	17.2	55.5	14603	6	US-10-995-561-13361	Sequence 13361, A	c 922	17	54.8	1311	6	US-10-750-623-56560	Sequence 56560, A
c 850	17.2	55.5	23555	6	US-10-995-561-13336	Sequence 13336, A	c 923	17	54.8	1391	6	US-10-750-185-31301	Sequence 31301, A
c 851	17.2	55.5	31320	6	US-10-995-561-13309	Sequence 13309, A	c 924	17	54.8	1391	6	US-10-750-623-31301	Sequence 31301, A
c 852	17.2	55.5	45268	6	US-10-995-561-13203	Sequence 13203, A	c 925	17	54.8	1400	7	US-11-128-061-4239	Sequence 4239, Ap
c 853	17.2	55.5	52192	6	US-10-995-561-13231	Sequence 13231, A	c 926	17	54.8	1565	6	US-10-750-185-44536	Sequence 44536, A
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c 856	17.2	55.5	60754	6	US-10-995-561-13440	Sequence 13440, A	c 929	17	54.8	1713	6	US-10-750-185-53584	Sequence 53584, A
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c 882	17.2	55.5	215308	7	US-11-121-086-77	Sequence 77, Appl	c 955	17	54.8	2578	6	US-10-995-561-503	Sequence 503, App
c 883	17.2	55.5	215308	7	US-11-121-086-77	Sequence 77, Appl	c 956	17	54.8	2658	6	US-10-995-561-501	Sequence 501, App
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c 889	17	54.8	79	6	US-10-310-914A-17807	Sequence 17807, A	c 962	17	54.8	4247	6	US-10-995-561-507	Sequence 507, App
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c 894	17	54.8	201	6	US-10-995-561-10839	Sequence 10839, A	c 967	17	54.8	6510	6	US-10-775-169-320	Sequence 320, App
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c 898	17	54.8	201	6	US-10-995-561-80997	Sequence 80997, A	c 971	17	54.8	40394	6	US-10-995-561-13493	Sequence 13493, A
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973 17 54.8 56448 6 US-10-995-561-13369 Sequence 13369, A
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980 17 54.8 203467 7 US-11-121-086-50 Sequence 50, Appl
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c 987 16.8 54.2 72 6 US-10-310-914A-14572 Sequence 14572, A
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ALIGNMENTS

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RESULT 1
US-11-134-241-47/c
; Sequence 47, Application US/11134241
; Publication No. US20050287568A1
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Friedrich, Glenn
; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; APPLICANT: Walke, D. Wade
; APPLICANT: Wilganowski, Nathaniel L.
; APPLICANT: Hu, Yi
; APPLICANT: Kieke, James Alvin
; APPLICANT: Potter, David George
; TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
; FILE REFERENCE: POLYNUCLEOTIDES ENCODING THE SAME
; CURRENT APPLICATION NUMBER: US/11/134,241
; CURRENT FILING DATE: 2005-05-20
; PRIOR FILING DATE: 2003-02-11
; PRIOR FILING DATE: 2001-02-28
; PRIOR FILING DATE: 2001-02-28
; PRIOR FILING DATE: 2000-02-29
; PRIOR FILING DATE: 2000-03-02
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 795
; TYPE: DNA
; ORGANISM: homo sapiens
US-11-134-241-47

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Best Local Similarity 86.7%; Pred. No. 19;
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Db 133 GCTTCAGCGCAGCCCCCAGCTCTTCTTCCA 104

RESULT 2
US-10-821-234-830/c
; Sequence 830, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 830
; LENGTH: 3332
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-830

Query Match 74.2%; Score 23; DB 6; Length 3332;
Best Local Similarity 83.3%; Pred. No. 30;
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Db 828 GCTGTCGCCGAGCTGCACCTCTTCTTCCAG 798

RESULT 3
US-10-995-561-14370
; Sequence 14370, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14370
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-14370

Query Match 69.0%; Score 21.4; DB 6; Length 201;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCAGCTCTTCTTCCA 31
Db 68 GCAGCAGCTGCAGCACCAGCTCCACCCAG 98

RESULT 4
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; Sequence 14385, Application US/10995561
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; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14385
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-14385

Query Match      69.0%; Score 21.4; DB 6; Length 201;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
   |||||
Db 147 GCAGCAGCTGCAGCACCAGCTCCACCCAG 177

RESULT 5
US-11-136-527-2837
; Sequence 2837, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2837
; LENGTH: 10259
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2837

Query Match      69.0%; Score 21.4; DB 7; Length 10259;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
   |||||
Db 7310 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 7340

RESULT 6
US-10-995-561-13197
; Sequence 13197, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13197
; LENGTH: 96128
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(96128)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-3)
US-10-995-561-13197

Query Match      69.0%; Score 21.4; DB 6; Length 96128;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
   |||||
Db 38484 GCAGCAGCTGCAGCACCAGCTCCACCCAG 38514

RESULT 7
US-10-927-641-36
; Sequence 36, Application US/10927641
; Publication No. US20050244968A1
; GENERAL INFORMATION:
; APPLICANT: Perera, Ranjan
; APPLICANT: Rice, Stephen
; APPLICANT: Eagleton, Clare
; APPLICANT: Lasham, Annette
; APPLICANT: Wood, Marion
; APPLICANT: Visser, Elizabeth
; TITLE OF INVENTION: Compositions and Methods for the
; TITLE OF INVENTION: Modification of Gene Expression
; FILE REFERENCE: 11000.1036c4
; CURRENT APPLICATION NUMBER: US/10/927,641
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: US/10/137,036
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: PCT/NZ 01/00115
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: U.S. No. 09/724,624
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 09/598,401
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/NZ00/00018
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: U.S. No. 60/146,591
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: U.S. No. 09/276,599
; PRIOR FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 1200
; TYPE: DNA
; ORGANISM: Eucalyptus grandis
US-10-927-641-36

Query Match      68.4%; Score 21.2; DB 6; Length 1200;
Best Local Similarity 88.5%; Pred. No. 1.2e+02;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCC 29
   |||||
Db 714 GCAGCTGGTGGCCCACTCTCTCC 739

RESULT 8
US-10-310-914A-10056
; Sequence 10056, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
```

; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10056
; LENGTH: 89
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-10056

Query Match 67.7%; Score 21; DB 6; Length 89;
Best Local Similarity 69.0%; Pred. No. 1.4e+02;
Matches 20; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

Qy 3 TGCAGCTGCAGCCCGCCACCTCTCTCCAG 31
:|||||:|||||:|||||:|||||:|||||
Db 9 UGCAGCUCAGCAGCUCAGCUCAGCUCAGCAG 37

RESULT 9

US-10-750-185-56691
; Sequence 56691, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 56691
; LENGTH: 1035
; TYPE: DNA
; ORGANISM: Bovine 19866881218727
US-10-750-185-56691

Query Match 67.7%; Score 21; DB 6; Length 1035;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCCGCCACCTCTCTCCCA 30
:|||||:|||||:|||||:|||||:|||||
Db 770 CAGCAGCGCAGCGCCCGCCAGCTCTCTTGACCA 798

RESULT 10

US-10-750-623-56691
; Sequence 56691, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 56691
; LENGTH: 1035
; TYPE: DNA
; ORGANISM: Bovine 19866881218727
US-10-750-623-56691

Query Match 67.7%; Score 21; DB 6; Length 1035;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCCGCCACCTCTCTCTCCCA 30
:|||||:|||||:|||||:|||||:|||||
Db 770 CAGCAGCGCAGCGCCCGCCAGCTCTCTTGACCA 798

RESULT 11

US-10-750-185-47557
; Sequence 47557, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47557
; LENGTH: 1750
; TYPE: DNA
; ORGANISM: Bovine 19866880959886
US-10-750-185-47557

Query Match 67.7%; Score 21; DB 6; Length 1750;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCCGCCACCTCTCTCTCCCA 30
:|||||:|||||:|||||:|||||:|||||
Db 819 CTGAGCTGCTGCTCCCATCTCTCTTCAGCA 847

RESULT 12

US-10-750-623-47557
; Sequence 47557, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47557
; LENGTH: 1750

```
; TYPE: DNA
; ORGANISM: Bovine 19866880959886
US-10-750-623-47557

Query Match
Best Local Similarity 67.7%; Score 21; DB 6; Length 1750;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCACCTCTCTTCTCCA 30
Db 819 CTGCAGCTGCTCCATCTCTCTTCAGCA 847

RESULT 13
US-11-136-527-3816/c
; Sequence 3816, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3816
; LENGTH: 4301
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3816

Query Match
Best Local Similarity 67.7%; Score 21; DB 7; Length 4301;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCTCC 29
Db 1875 GCTGCTGCTGCAGCTCTCGCTTCTGC 1847

RESULT 14
US-11-128-061-745/c
; Sequence 745, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997-027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 745
; LENGTH: 14619
; TYPE: DNA
; ORGANISM: Cricetulus griseus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2751)..(2765)
; OTHER INFORMATION: n is a, c, g, or t

; TYPE: DNA
; ORGANISM: Bovine 19866880959886
US-10-750-623-47557

Query Match
Best Local Similarity 82.8%; Score 21; DB 6; Length 1750;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCACCTCTCTTCTCCA 30
Db 819 CTGCAGCTGCTCCATCTCTCTTCAGCA 847

RESULT 13
US-11-136-527-3816/c
; Sequence 3816, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3816
; LENGTH: 4301
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3816

Query Match
Best Local Similarity 82.8%; Score 21; DB 7; Length 14619;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCTCC 29
Db 5701 GCTGCGCTGCGCGCGCTCTCTGCTCC 5673

RESULT 15
US-11-136-527-8100/c
; Sequence 8100, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8100
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-8100

Query Match
Best Local Similarity 85.2%; Score 20.6; DB 7; Length 1400;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCACCTCTCTTCTC 28
Db 639 CTGCAGCTGCAGCTATCCGCTTCTC 613
```

RESULT 16

US-11-134-563-7
; Sequence 7, Application US/11134563
; Publication No. US20050287569A1
; GENERAL INFORMATION:
; APPLICANT: Leong, John M.
; APPLICANT: Campellone, Kenneth G.
; TITLE OF INVENTION: ESPFNUCLEIC ACIDS AND PROTEINS AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 07917-280001
; CURRENT APPLICATION NUMBER: US/11/134,563
; CURRENT FILING DATE: 2005-05-20
; PRIOR APPLICATION NUMBER: US 60/573,600
; PRIOR FILING DATE: 2004-05-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 1506
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-134-563-7

Query Match 66.5%; Score 20.6; DB 7; Length 1506;
Best Local Similarity 85.2%; Pred. No. 1.9e+02;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTTCT 27
Db 949 GCTGCACCTCCACTCCACCTCTTCT 975

RESULT 17

US-11-136-527-4004/c
; Sequence 4004, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4004
; LENGTH: 2098
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4004

Query Match 66.5%; Score 20.6; DB 7; Length 2098;
Best Local Similarity 85.2%; Pred. No. 1.9e+02;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCACCTCTTCTC 28
Db 1337 CTCGAGCTGCAGCTCATCCGCTTCTC 1311

RESULT 18

US-10-750-185-49752
; Sequence 49752, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 49752
; LENGTH: 916
; TYPE: DNA
; ORGANISM: Bovine 19866880896921
US-10-750-185-49752

Query Match 65.8%; Score 20.4; DB 6; Length 916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTTCTCCA 30
Db 463 GCTGGGCGAGCAGCCACCTGTGCTCTCCA 492

RESULT 19

US-10-750-623-49752
; Sequence 49752, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 49752
; LENGTH: 916
; TYPE: DNA
; ORGANISM: Bovine 19866880896921
US-10-750-623-49752

Query Match 65.8%; Score 20.4; DB 6; Length 916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTTCTCCA 30
Db 463 GCTGGGCGAGCAGCCACCTGTGCTCTCCA 492

RESULT 20

US-10-750-185-30841/c
; Sequence 30841, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185

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; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30841
; LENGTH: 1916
; TYPE: DNA
; ORGANISM: Bovine 19866881390838
US-10-750-185-30841

Query Match          65.8%; Score 20.4; DB 6; Length 1916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 1250 GCAGCAGCAGCAGCAGCAGCTCTCTCCCA 1221

RESULT 21
US-10-750-623-30841/c
; Sequence 30841, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30841
; LENGTH: 1916
; TYPE: DNA
; ORGANISM: Bovine 19866881390838
US-10-750-623-30841

Query Match          65.8%; Score 20.4; DB 6; Length 1916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 1250 GCAGCAGCAGCAGCAGCAGCTCTCTCCCA 1221

RESULT 22
US-11-000-463-220/c
; Sequence 220, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
```

```
; CURRENT APPLICATION NUMBER: US/11/000,463
; CURRENT FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 220
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (388)..(1776)
US-11-000-463-220

Query Match          65.8%; Score 20.4; DB 7; Length 2784;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 1492 GCGCGCTCTCCGCCCCACGCTCTCTCCA 1463

RESULT 23
US-11-121-086-4/c
; Sequence 4, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 164810
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-4

Query Match          65.8%; Score 20.4; DB 7; Length 164810;
Best Local Similarity 80.0%; Pred. No. 2.1e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 87068 GCAGCAGCGCAGCTCCACGCTCTGCTGCA 87039

RESULT 24
US-11-121-086-3/c
; Sequence 3, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
```

```
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-3

Query Match      65.8%; Score 20.4; DB 7; Length 168516;
Best Local Similarity 80.0%; Pred. No. 2.1e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCCACCTCCTCTCCAG 31
Db 114707 CTCCTGCTGCTGCTCCCTCCTCTCTCCGG 114678

RESULT 25
US-11-136-527-4095/c
; Sequence 4095, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4095
; LENGTH: 13187
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4095

Query Match      65.2%; Score 20.2; DB 7; Length 13187;
Best Local Similarity 88.0%; Pred. No. 2.5e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCCACCTCCTCTTC 26
Db 5735 CTCGACCTGCAGCTCCTCTCTCTTC 5711

RESULT 26
US-11-128-061-334/c
; Sequence 334, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4095
; LENGTH: 13187
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4095

Query Match      65.2%; Score 20.2; DB 7; Length 13187;
Best Local Similarity 88.0%; Pred. No. 2.5e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCCACCTCCTCTTC 26
Db 5735 CTCGACCTGCAGCTCCTCTCTCTTC 5711

RESULT 26
US-11-128-061-334/c
; Sequence 334, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4095
; LENGTH: 13187
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4095
```

```
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 334
; LENGTH: 569
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-334

Query Match      64.5%; Score 20; DB 7; Length 569;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCCACCTCCTCTCCAG 31
Db 132 GCAGCTTCAGCCCCCAACTCTTTAACCCAG 105

RESULT 27
US-11-128-061-3976/c
; Sequence 3976, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3976
; LENGTH: 569
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-3976

Query Match      64.5%; Score 20; DB 7; Length 569;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCCACCTCCTCTCCAG 31
Db 132 GCAGCTTCAGCCCCCAACTCTTTAACCCAG 105

RESULT 28
US-11-136-527-1484
; Sequence 1484, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1484
; LENGTH: 957
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-1484
```

```
US-11-136-527-1484
Query Match      64.5%; Score 20; DB 7; Length 957;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCCAG 31
Db 716 GCAGCTTCAGCCCACTCTCTTAATCAG 743

RESULT 29
US-11-136-527-5580/c
; Sequence 5580, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5580
; LENGTH: 957
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-5580

Query Match      64.5%; Score 20; DB 7; Length 957;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 242 GCAGCTTCAGCCCACTCTCTTAATCAG 215

RESULT 30
US-10-750-185-35634
; Sequence 35634, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35634
; LENGTH: 1285
; TYPE: DNA
; ORGANISM: Bovine 19866881179359
US-10-750-185-35634

Query Match      64.5%; Score 20; DB 6; Length 1285;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCACTCTCTCTCC 29
Db 242 CTCGAGCTGCAGCCCACTCTCTCTCC 215

RESULT 31
US-10-750-623-35634
; Sequence 35634, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35634
; LENGTH: 1285
; TYPE: DNA
; ORGANISM: Bovine 19866881179359
US-10-750-623-35634

Query Match      64.5%; Score 20; DB 6; Length 1285;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCACTCTCTCTCC 29
Db 1202 CTCGAGTGTAGCACCCTACTCTCC 1229

RESULT 32
US-11-136-527-3719/c
; Sequence 3719, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3719
; LENGTH: 2595
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3719

Query Match      64.5%; Score 20; DB 7; Length 2595;
Best Local Similarity 82.1%; Pred. No. 2.9e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 341 GCTGCTGCAGCCCACTCTCTCTCCAG 314

RESULT 33
US-11-136-527-1828
; Sequence 1828, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1828
; LENGTH: 4510
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-1828

Query Match      64.5%; Score 20; DB 7; Length 4510;
Best Local Similarity 82.1%; Pred. No. 2.9e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      4 GCAGCTGCAGCCCACTCTCTCCAG 31
Db      660 GCAGCAGCAGCCCTTCTCTTCAGCAG 687

RESULT 34
US-11-112-908-43/c
; Sequence 43, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 159660
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-112-908-43

Query Match      64.5%; Score 20; DB 7; Length 159660;
Best Local Similarity 82.1%; Pred. No. 2.8e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      3 TGCAGCTGCAGCCCACTCTCTCCAG 30
Db      159505 TGCAGGTGGAGCCCACTCTCTCCCA 159478

RESULT 35
US-11-121-086-28
; Sequence 28, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
```

```
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 172111
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-121-086-28

Query Match      64.5%; Score 20; DB 7; Length 172111;
Best Local Similarity 82.1%; Pred. No. 2.8e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      2 CTGCAGCTGCAGCCCACTCTCTCTCC 29
Db      97644 CTGCAGCGCGCTCTCTCTCTCTCC 97671

RESULT 36
US-10-750-185-62340/c
; Sequence 62340, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62340
; LENGTH: 730
; TYPE: DNA
; ORGANISM: Bovine
; US-10-750-185-62340

Query Match      63.9%; Score 19.8; DB 6; Length 730;
Best Local Similarity 77.4%; Pred. No. 3.5e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db      462 GCAGCCTCTGCAGCTGCGCCCTCTCTCCAG 432

RESULT 37
US-10-750-623-62340/c
; Sequence 62340, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
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; SEQ ID NO 62340

; LENGTH: 730

; TYPE: DNA

; ORGANISM: Bovine 19866881552925

US-10-750-623-62340

Query Match

Best Local Similarity 63.9%; Score 19.8; DB 6; Length 730;

Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31

Db 462 GCAGCTCTGCAGCTGCCTCTCTCCAG 432

RESULT 38

US-11-136-527-3337

; Sequence 3337, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)

; CURRENT APPLICATION NUMBER: US/11/136,527

; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294

; PRIOR FILING DATE: 2005-05-26

; NUMBER OF SEQ ID NOS: 362830

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 3337

; LENGTH: 795

; TYPE: DNA

; ORGANISM: Rattus norvegicus

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (395)..(395)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (556)..(556)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (595)..(595)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (683)..(683)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (705)..(705)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (711)..(711)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (716)..(716)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (768)..(768)

; OTHER INFORMATION: n is a, c, g, or t

US-11-136-527-3337

Query Match

Best Local Similarity 63.9%; Score 19.8; DB 7; Length 795;

Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31

Db 95 GCGCAGCCCCCTGCCCCAGCTCTCTGCCCGAG 125

RESULT 39

US-11-136-527-7433

; Sequence 7433, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)

; CURRENT APPLICATION NUMBER: US/11/136,527

; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294

; PRIOR FILING DATE: 2005-05-26

; NUMBER OF SEQ ID NOS: 362830

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 7433

; LENGTH: 795

; TYPE: DNA

; ORGANISM: Rattus norvegicus

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (395)..(395)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (556)..(556)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (595)..(595)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (683)..(683)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (705)..(705)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (711)..(711)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (716)..(716)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (768)..(768)

; OTHER INFORMATION: n is a, c, g, or t

US-11-136-527-7433

Query Match

Best Local Similarity 63.9%; Score 19.8; DB 7; Length 795;

Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31

Db 95 GCGCAGCCCCCTGCCCCAGCTCTCTGCCCGAG 125

RESULT 40

US-11-136-527-3103/c

; Sequence 3103, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

```
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3103
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (639)..(639)
; OTHER INFORMATION: n is a, c, g, or t
US-11-136-527-3103

Query Match      63.9%; Score 19.8; DB 7; Length 1195;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
   ||||| ||||| ||||| ||||| |||||
Db 390 GCTGCAGTTCAGCTTCTCTCTCTCTCCAG 360

RESULT 41
US-11-124-368A-154/c
; Sequence 154, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 154
; LENGTH: 3320
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-154

Query Match      63.9%; Score 19.8; DB 7; Length 3320;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
   ||||| ||||| ||||| ||||| |||||
Db 1181 GCTGCAGCTGTGGCCCACTGCAGCCCGG 1151

RESULT 42
US-11-124-368A-156/c
; Sequence 156, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
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; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 3338
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-156

Query Match      63.9%; Score 19.8; DB 7; Length 3338;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
   ||||| ||||| ||||| ||||| |||||
Db 1199 GCTGCAGCTGTGGCCCACTGCAGCCCGG 1169

RESULT 43
US-10-821-234-805/c
; Sequence 805, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 805
; LENGTH: 3369
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-805

Query Match      63.9%; Score 19.8; DB 6; Length 3369;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
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Db 1591 GCTGTAGTGTGCTGCTCTCTCTCTCCAG 1561

RESULT 44
US-10-964-313-3/c
; Sequence 3, Application US/10964313
; Publication No. US20050287629A1
; GENERAL INFORMATION:
; APPLICANT: GROZINGER, CHRISTINA M.
; APPLICANT: HASSIG, CHRISTIAN A.
; APPLICANT: SCHREIBER, STUART L.
; TITLE OF INVENTION: CLASS II HUMAN HISTONE DEACETYLASES, AND USES RELATED
; TITLE OF INVENTION: THERETO
; FILE REFERENCE: HUV-037.02
; CURRENT APPLICATION NUMBER: US/10/964,313
; CURRENT FILING DATE: 2004-10-13
; PRIOR APPLICATION NUMBER: 09/800,187
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,802
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn Ver. 3.3
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; SEQ ID NO 3
; LENGTH: 3369
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-964-313-3

Query Match 63.9%; Score 19.8; DB 6; Length 3369;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
Db 1591 GCTGTAGCTGCTGCTGCTCTGCTTCTCTCCAG 1561

RESULT 45
US-11-124-368A-155/c
; Sequence 155, Application US(11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US(11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 155
; LENGTH: 3422
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-155

Query Match 63.9%; Score 19.8; DB 7; Length 3422;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
Db 1283 GCTGCAGCTGTGCGCCCACTCTGCAGCCCGG 1253

RESULT 46
US-10-821-234-311/c
; Sequence 311, Application US(10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US(10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 311
; LENGTH: 6406
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-311

Query Match 63.9%; Score 19.8; DB 6; Length 6406;

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Db 1459 TGCAGCATCTGCCACACCTCTTCTC 1434

Search completed: January 11, 2006, 05:12:20

Job time : 659.707 secs

QY 1 GCTGCGCTGCAGCCGCCACCTCTTCTC 26
|||||

Db 347 GCTGCGCGCTGCAGCCGCCACCTCTTCTC 322
|||||

RESULT 49

US-10-750-185-38467/c

; Sequence 38467, Application US/10750185

; Publication No. US20050260603A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

; APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS

; FILE REFERENCE: MM1100-2

; CURRENT APPLICATION NUMBER: US/10/750,185

; CURRENT FILING DATE: 2003-12-31

; PRIOR APPLICATION NUMBER: US 60/437,482

; PRIOR FILING DATE: 2002-12-31

; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 38467

; LENGTH: 1811

; TYPE: DNA

; ORGANISM: Bovine 19866881002090

US-10-750-185-38467

Query Match 63.2%; Score 19.6; DB 6; Length 1811;

Best Local Similarity 84.6%; Pred. No. 4e+02;

Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 TGCAGCTGCAGCCGCCACCTCTTCTC 28
|||||

Db 1459 TGCAGCATCTGCCACACCTCTTCTC 1434

RESULT 50

US-10-750-623-38467/c

; Sequence 38467, Application US/10750623

; Publication No. US20050287531A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

; APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

; FILE REFERENCE: MM1100-1

; CURRENT APPLICATION NUMBER: US/10/750,623

; CURRENT FILING DATE: 2003-12-31

; PRIOR APPLICATION NUMBER: US 60/437,482

; PRIOR FILING DATE: 2002-12-31

; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 38467

; LENGTH: 1811

; TYPE: DNA

; ORGANISM: Bovine 19866881002090

US-10-750-623-38467

Query Match 63.2%; Score 19.6; DB 6; Length 1811;

Best Local Similarity 84.6%; Pred. No. 4e+02;

Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 TGCAGCTGCAGCCGCCACCTCTTCTC 28
|||||

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:14:24 ; Search time 277 Seconds
(without alignments)
8637.538 Million cell updates/sec

Title: US-09-869-169C-19
Perfect score: 1346
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Gapop 60.0 , Gapext 60.0

Searched: 1303057 seqs, 888780828 residues

Word size : 30

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Minimum DB seq length: 0

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Post-processing: Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1346	100.0	103934	3	US-09-949-016-14433
2	1175	87.3	1254	3	US-10-085-612A-4
3	64	4.8	601	3	US-09-949-016-93499
4	58	4.3	35803	3	US-09-949-016-11863
5	58	4.3	35804	3	US-09-949-016-12962
6	34	2.5	34	3	US-10-085-612A-6
7	33	2.5	33	3	US-09-227-718B-34
8	33	2.5	33	3	US-09-840-008A-34
9	33	2.5	34	3	US-10-085-612A-2
10	33	2.5	17731	3	US-09-949-016-16365
11	33	2.5	89584	3	US-09-949-016-17068
12	32	2.4	12157	3	US-09-949-016-13490
13	32	2.4	12157	3	US-09-949-016-13491
14	32	2.4	12157	3	US-09-949-016-15709
15	32	2.4	12157	3	US-09-949-016-15710
16	30	2.2	818128	3	US-09-949-016-14546
17	30	2.2	818128	3	US-09-949-016-14547
18	30	2.2	818128	3	US-09-949-016-14548
19	30	2.2	818128	3	US-09-949-016-14549
20	30	2.2	818128	3	US-09-949-016-14550
21	30	2.2	818128	3	US-09-949-016-14551
22	30	2.2	818128	3	US-09-949-016-14552
23	30	2.2	818128	3	US-09-949-016-14553
24	30	2.2	818128	3	US-09-949-016-14554

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C	26	30	2.2	818128	3	US-09-949-016-14556	Sequence 14556, A
C	27	30	2.2	818128	3	US-09-949-016-14557	Sequence 14557, A
C	28	30	2.2	818128	3	US-09-949-016-14558	Sequence 14558, A
C	29	30	2.2	818128	3	US-09-949-016-14559	Sequence 14559, A
C	30	30	2.2	818128	3	US-09-949-016-14560	Sequence 14560, A
C	31	30	2.2	818128	3	US-09-949-016-14561	Sequence 14561, A
C	32	30	2.2	818128	3	US-09-949-016-14562	Sequence 14562, A
C	33	30	2.2	818128	3	US-09-949-016-14564	Sequence 14564, A
C	34	30	2.2	818128	3	US-09-949-016-14565	Sequence 14565, A
C	35	30	2.2	818128	3	US-09-949-016-14566	Sequence 14566, A
C	36	30	2.2	818128	3	US-09-949-016-14567	Sequence 14567, A

ALIGNMENTS

RESULT 1
US-09-949-016-14433
; Sequence 14433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14433
; LENGTH: 103934
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(103934)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14433

Query Match		100.0%;	Score 1346;	DB 3;	Length 103934;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 1346;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GGAAGCAACCTACATGCCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA	60		
Db	85230	GGAAGCAACCTACATGCCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA	85289		
Qy	61	CAATGGAGTACAATTCCAGCCATGAAAGAGCATGAGATCCTGCTTTTATAAATGCTGG	120		
Db	85290	CAATGGAGTACAATTCCAGCCATGAAAGAGCATGAGATCCTGCTTTTATAAATGCTGG	85349		
Qy	121	CTGGAACTCGAGTCAATTATGTTAGTAAATAAGCAGGACACAAAGACACATTCG	180		
Db	85350	CTGGAACTCGAGTCAATTATGTTAGTAAATAAGCAGGACACAAAGACACATTCG	85409		
Qy	181	ATGTTCTCACTTATTTGTGGATCTACAATCAAAATTTAGCTAACTCTGGGCTTT	240		
Db	85410	ATGTTCTCACTTATTTGTGGATCTACAATCAAAATTTAGCTAACTCTGGGCTTT	85469		
Qy	241	AGTCAATTTTGTACCCCTAAGTACAGGAGCAGCCATTAGATACATGATGATGCTTT	300		
Db	85470	AGTCAATTTTGTACCCCTAAGTACAGGAGCAGCCATTAGATACATGATGATGCTTT	85529		
Qy	301	AATACAGGAATGAATAGGTGAGAGGACAGGGTGGTCTTCTGATACATAGTA	360		
Db	85530	AATACAGGAATGAATAGGTGAGAGGACAGGGTGGTCTTCTGATACATAGTA	85589		

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QY 361 TCTTCTCTTGACACATTTCAGTACAACTCTCAACAGGTAAGTCTCTTCATGTATGTACCTT 420
Db |||||
QY 85590 TCTTCTCTTGACACATTTCAGTACAACTCTCAACAGGTAAGTCTCTTCATGTATGTACCTT 85649
Db |||||
QY 421 CTGAGGAATTAAGTGGCAGAACATCGCTCTCTATATTTTCTTTGCGAGAACAGACCAAT 480
Db |||||
QY 85650 CTGAGGAATTAAGTGGCAGAACATCGCTCTCTATATTTTCTTTGCGAGAACAGACCAAT 85709
Db |||||
QY 481 TGCATTAGTTGGGAAACAGTGTGGCTGCACTGTAGGCCCCCAAGCAACCATTAGTCTATTG 540
Db |||||
QY 85710 TGCATTAGTTGGGAAACAGTGTGGCTGCACTGTAGGCCCCCAAGCAACCATTAGTCTATTG 85769
Db |||||
QY 541 CTATCACACAGACTCAGAGGGGATGACACAGAGGGGCCAGCAATCTCACCCAAAGTCAA 600
Db |||||
QY 85770 CTATCACACAGACTCAGAGGGGATGACACAGAGGGGCCAGCAATCTCACCCAAAGTCAA 85829
Db |||||
QY 601 CTCACCAACATTTCTGGTCACCCACCACATGTGTACAGTACCTCTGCTAGGGTCCAGGGTCA 660
Db |||||
QY 85830 CTCACCAACATTTCTGGTCACCCACCACATGTGTACAGTACCTCTGCTAGGGTCCAGGGTCA 85889
Db |||||
QY 661 TGAAGTAAATATACAGACTGTGCCCTTGAGGAATCTCAGTCTGTCTAAGGGAACAGG 720
Db |||||
QY 85890 TGAAGTAAATATACAGACTGTGCCCTTGAGGAATCTCAGTCTGTCTAAGGGAACAGG 85949
Db |||||
QY 721 CACAGAACCCACAAAGGGTGTAGAGAGAAATAGGACAATAGGACTGTGTAGGGGGAT 780
Db |||||
QY 85950 CACAGAACCCACAAAGGGTGTAGAGAGAAATAGGACAATAGGACTGTGTAGGGGGAT 86009
Db |||||
QY 781 AGGAGGCCACCCAGAGGAGGAATGGTTACATCTGTGTGAGGAGGTGGTAAAGAAAGACT 840
Db |||||
QY 86010 AGGAGGCCACCCAGAGGAGGAATGGTTACATCTGTGTGAGGAGGTGGTAAAGAAAGACT 86069
Db |||||
QY 841 TTAATAGAAGGGTCTGTCTGGCTGGGGTTGCAAGGATGTGTAGGATCATCTTAGGGGGC 900
Db |||||
QY 86070 TTAATAGAAGGGTCTGTCTGGCTGGGGTTGCAAGGATGTGTAGGATCATCTTAGGGGGC 86129
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QY 901 ACAAGTACATCCACAGGCAGAGGGAATTCATGGGTAAAGATCTGCAGTGTGGCTTCTGG 960
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QY 86130 ACAAGTACATCCACAGGCAGAGGGAATTCATGGGTAAAGATCTGCAGTGTGGCTTCTGG 86189
Db |||||
QY 961 GGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAAGGGCGAGGTGAGAGGA 1020
Db |||||
QY 86190 GGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAAGGGCGAGGTGAGAGGA 86249
Db |||||
QY 1021 TATTTAAGAGCTTCATGCCAATGGCTCCACTTCAGTTTCTGTATGAAGAACTCAGGTTCCG 1080
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QY 86250 TATTTAAGAGCTTCATGCCAATGGCTCCACTTCAGTTTCTGTATGAAGAACTCAGGTTCCG 86309
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QY 1081 TGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAACCTCAA 1140
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QY 86310 TGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAACCTCAA 86369
Db |||||
QY 1141 GGAGGTAAAGCAAAAGGGTGTGTGCCATTTCTTTGCTACTGTGTCAGCTGCAGGCCCCACCT 1200
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QY 86370 GGAGGTAAAGCAAAAGGGTGTGTGCCATTTCTTTGCTACTGTGTCAGCTGCAGGCCCCACCT 86429
Db |||||
QY 1201 CCTTCTCAGCACATAAATTTAGCAGAGCTTGACCTTAAGACTGTGTGTCAGGCGAGGA 1260
Db |||||
QY 86430 CCTTCTCAGCACATAAATTTAGCAGAGCTTGACCTTAAGACTGTGTGTCAGGCGAGGA 86489
Db |||||
QY 1261 TGCTCCAGGCAGACGCCAGCAACACACAGCACACAGCTGAAAGTAAAGCTCAGAGGAG 1320
Db |||||
QY 86490 TGCTCCAGGCAGACGCCAGCAACACACAGCACACAGCTGAAAGTAAAGCTCAGAGGAG 86549
Db |||||
QY 1321 ACAGTTGAAGAAAGCAAGTGGCGATG 1346
Db |||||
QY 86550 ACAGTTGAAGAAAGCAAGTGGCGATG 86575
Db |||||
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; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-CI
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-085-612A-4

Query Match 87.3%; Score 1175; DB 3; Length 1254;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 12 AGACATTGCATGTTCTCATTATTTGTGGGATCTACAAATCAAAACAATTTGAGCTAATGT 71
Db |||||
QY 232 CTGGCTCTTAGTCAATTTTGTACCCTAAAGTACAGGGAGCACAGCATTTAGAAATACATGAT 291
Db |||||
QY 72 CTGGCTCTTAGTCAATTTTGTACCCTAAAGTACAGGGAGCACAGCATTTAGAAATACATGAT 131
Db |||||
QY 292 GAATGCTTTAATACAGGAATGAATAGTTCAGAGGCACAGGGTGGTGGGTTCTTCTGA 351
Db |||||
QY 132 GAATGCTTTAATACAGGAATGAATAGTTCAGAGGCACAGGGTGGTGGGTTCTTCTGA 191
Db |||||
QY 352 TACATAGTATCTTCTTTGACACATTTCAGTACAACTCTCTCAACAGGTAAAGTCTCTTCATGTA 411
Db |||||
QY 192 TACATAGTATCTTCTTTGACACATTTCAGTACAACTCTCTCAACAGGTAAAGTCTCTTCATGTA 251
Db |||||
QY 412 TGTACCTCTGAGGGAATTAAGTGGCAGACATGCTCTTATTATTTCTTTGCGAAGC 471
Db |||||
QY 252 TGTACCTCTGAGGGAATTAAGTGGCAGACATGCTCTTATTATTTCTTTGCGAAGC 311
Db |||||
QY 472 AAGACCAATTGCATTTAGTTGGGAAAACAGTCTGGCTGCATCTGAGCCCCCAAGCAACCAT 531
Db |||||
QY 312 AAGACCAATTGCATTTAGTTGGGAAAACAGTCTGGCTGCATCTGAGCCCCCAAGCAACCAT 371
Db |||||
QY 532 AGTCTATTTGCTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCAC 591
Db |||||
QY 372 AGTCTATTTGCTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCAC 431
Db |||||
QY 592 CCAAGTCAATCCACCAACATTTCTGGTCAACCCACATGTGTACAGTACCTGCTAGGCT 651
Db |||||
QY 432 CCAAGTCAATCCACCAACATTTCTGGTCAACCCACATGTGTACAGTACCTGCTAGGCT 491
Db |||||
QY 652 CCAGGGTTCATGAAAGTAAATAATACAGACTGTGGCTTCCCTTGGAGAACTCACCTCTGCTAAG 711
Db |||||
QY 492 CCAGGGTTCATGAAAGTAAATAATACAGACTGTGGCTTCCCTTGGAGAACTCACCTCTGCTAAG 551
Db |||||
QY 712 GGAACAGGCACAGAAACCCACAAAGGGTGTGTAGAGAGGAATAATAGGACAAATAGGACTGTGT 771
Db |||||
QY 552 GGAACAGGCACAGAAACCCACAAAGGGTGTGTAGAGAGGAATAATAGGACAAATAGGACTGTGT 611
Db |||||
QY 772 GAGGGGATAGGGGACCCAGAGGAGGAATGTTACATCTGTGTGAGGAGGTGGTAA 831
Db |||||
QY 612 GAGGGGATAGGGGACCCAGAGGAGGAATGTTACATCTGTGTGAGGAGGTGGTAA 671
Db |||||
QY 832 GGAAGACTTTAATAGAAAGGGGTCTGTCTGGCTGGGCTTGCAGGATGTGTAGAGTCAAT 891
Db |||||
```

Db 672 GGAAGACATTTAATAGAGGGTCTGTCTGGCTGGGCTTGCACAGGATGTAGGAGTCAT 731
QY 892 CTAGGGGGCACAAGTACACTCCAGGAGAGGGAAATTCATGGGTAAAGATCTGCAGTTGT 951
Db 732 CTAGGGGGCACAAGTACACTCCAGGAGAGGGAAATTCATGGGTAAAGATCTGCAGTTGT 791
QY 952 GCGTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAAGGGCAG 1011
Db 792 GCGTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAAGGGCAG 851
QY 1012 GTGAGAGGATATTAAAGAGCTTCATGCCAATCGCTCCACTTCAGTTTCTGATAAGAACT 1071
Db 852 GTGAGAGGATATTAAAGAGCTTCATGCCAATCGCTCCACTTCAGTTTCTGATAAGAACT 911
QY 1072 CAGGTTCCGTGGACTCCCTGATAAAACTGATTAAGTTGTTTATGATCCCATAGAAATAT 1131
Db 912 CAGGTTCCGTGGACTCCCTGATAAAACTGATTAAGTTGTTTATGATCCCATAGAAATAT 971
QY 1132 GAACTCAAGGAGGTAAAGAAAGGGGTGTGTGCGATTTCTTGCTACTGGCTGCAGCTGCA 1191
Db 972 GAACTCAAGGAGGTAAAGAAAGGGGTGTGTGCGATTTCTTGCTACTGGCTGCAGCTGCA 1031
QY 1192 GCGCCACCTCTCTCCAGCACATAAACATTTTCAGCAGCTTGACCTTAAGACTGCTGTGA 1251
Db 1032 GCGCCACCTCTCTCCAGCACATAAACATTTTCAGCAGCTTGACCTTAAGACTGCTGTGA 1091
QY 1252 GGGCAGGATGCTCCAGGAGACAGAGCCAGCAAAACACAGCACACAGCTGAAAGTAAGAC 1311
Db 1092 GGGCAGGATGCTCCAGGAGACAGAGCCAGCAAAACACAGCACACAGCTGAAAGTAAGAC 1151
QY 1312 TCAGAGGACAGTTGAAGAGCAAGTGGCGATG 1346
Db 1152 TCAGAGGACAGTTGAAGAGCAAGTGGCGATG 1186

RESULT 3
US-09-949-016-93499/c
; Sequence 93499, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93499
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-93499
Query Match 4.8%; Score 64; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 7.7e-22;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 200 GGATCTCAAAATCAAAACAATGAGCTAATGTCTGGCTCTTAGTCAATTTGTACCCCTAA 259
Db 578 GGATCTCAAAATCAAAACAATGAGCTAATGTCTGGCTCTTAGTCAATTTGTACCCCTAA 519
QY 260 GTAC 263
Db 518 GTAC 515

RESULT 4
US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11863
Query Match 4.3%; Score 58; DB 3; Length 35803;
Best Local Similarity 100.0%; Pred. No. 7.7e-19;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 754 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 811
Db 1502 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 1559

RESULT 5
US-09-949-016-12962
; Sequence 12962, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12962
; LENGTH: 35804
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12962
Query Match 4.3%; Score 58; DB 3; Length 35804;
Best Local Similarity 100.0%; Pred. No. 7.7e-19;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 754 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 811
Db 1502 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 1559

RESULT 6
US-10-085-612A-6
; Sequence 6, Application US/10085612A
; Patent No. 6929912

```
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; TITLE OF INVENTION: XENOBIOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND
; FILE REFERENCE: 088802-5211
; CURRENT APPLICATION NUMBER: US/09/840,008A
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 09/227,718
; PRIOR FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/458,366
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-840-008A-34

Query Match      2.5%; Score 34; DB 3; Length 34;
Best Local Similarity 100.0%; Pred. No. 9.2e-07;
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1164 CGATTCCTTTGCTACTGCTGAGCTGAGCCCA 1197
Db 1 CGATTCCTTTGCTACTGCTGAGCTGAGCCCA 34

RESULT 7
US-09-227-718B-34
; Sequence 34, Application US/09227718B
; Patent No. 6809178
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD M.
; APPLICANT: BLUMBERG, BRUCE
; TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR RECEPTORS AND USES
; FILE REFERENCE: 088802-5202
; CURRENT APPLICATION NUMBER: US/09/227,718B
; CURRENT FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; FEATURE:
; OTHER INFORMATION: oligonucleotide
; OTHER INFORMATION: CYP3A oligonucleotide, CYP3A5, tested for binding
; US-09-227-718B-34

Query Match      2.5%; Score 33; DB 3; Length 33;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1124 TAGAATATGAACCTCAAGGAGGTAAAGCAAGGG 1156
Db 1 TAGAATATGAACCTCAAGGAGGTAAAGCAAGGG 33

RESULT 8
US-09-840-008A-34
; Sequence 34, Application US/09840008A
; Patent No. 6911537
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD M.
; TITLE OF INVENTION: XENOBIOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND
; FILE REFERENCE: 088802-5211
; CURRENT APPLICATION NUMBER: US/09/840,008A
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 09/227,718
; PRIOR FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/458,366
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-840-008A-34

Query Match      2.5%; Score 33; DB 3; Length 33;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1164 CGATTCCTTTGCTACTGCTGAGCTGAGCCCA 1196
Db 1 CGATTCCTTTGCTACTGCTGAGCTGAGCCCA 33

RESULT 9
US-10-085-612A-2
; Sequence 2, Application US/10085612A
; Patent No. 6925912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 34
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-085-612A-2

Query Match      2.5%; Score 33; DB 3; Length 34;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1164 CGATTCCTTTGCTACTGCTGAGCTGAGCCCA 1196
Db 1 CGATTCCTTTGCTACTGCTGAGCTGAGCCCA 33

RESULT 10
US-09-949-016-16365/c
; Sequence 16365, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
```


; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16365
; LENGTH: 17731
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16365

Query Match 2.5%; Score 33; DB 3; Length 17731;
Best Local Similarity 100.0%; Pred. No. 2.8e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 1104 ACATTGCATGTTCTCACTTATTGTGGGATCTA 1072
|||||

RESULT 11

US-09-949-016-17068/c
; Sequence 17068, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17068
; LENGTH: 89584
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17068

Query Match 2.5%; Score 33; DB 3; Length 89584;
Best Local Similarity 100.0%; Pred. No. 2.7e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 23255 ACATTGCATGTTCTCACTTATTGTGGGATCTA 23223
|||||

RESULT 12

US-09-949-016-13490/c
; Sequence 13490, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13490
; LENGTH: 12157
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13490

Query Match 2.4%; Score 32; DB 3; Length 12157;
Best Local Similarity 100.0%; Pred. No. 8.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 5229 CATTGCATGTTCTCACTTATTGTGGGATCTA 5198
|||||

RESULT 13

US-09-949-016-13491/c
; Sequence 13491, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13491
; LENGTH: 12157
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13491

Query Match 2.4%; Score 32; DB 3; Length 12157;
Best Local Similarity 100.0%; Pred. No. 8.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 5229 CATTGCATGTTCTCACTTATTGTGGGATCTA 5198
|||||

RESULT 14

US-09-949-016-15709/c
; Sequence 15709, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15709
; LENGTH: 12157
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-15709

Query Match          2.4%; Score 32; DB 3; Length 12157;
Best Local Similarity 100.0%; Pred. No. 8.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCACTTATTGTGGGATCTA 206
      |||||||
Db 5229 CATTGCATGTTCTCACTTATTGTGGGATCTA 5198

RESULT 15
US-09-949-016-15710/c
; Sequence 15710, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15710
; LENGTH: 12157
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-15710

Query Match          2.4%; Score 32; DB 3; Length 12157;
Best Local Similarity 100.0%; Pred. No. 8.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCACTTATTGTGGGATCTA 206
      |||||||
Db 5229 CATTGCATGTTCTCACTTATTGTGGGATCTA 5198

RESULT 16
US-09-949-016-14546/c
; Sequence 14546, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14546
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human

Query Match          2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
      |||||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 17
US-09-949-016-14547/c
; Sequence 14547, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14547
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
; US-09-949-016-14547

Query Match          2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
      |||||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 18
US-09-949-016-14548/c
; Sequence 14548, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14548
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; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14548

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 19
US-09-949-016-14549/c
; Sequence 14549, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14549
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14549

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 20
US-09-949-016-14550/c
; Sequence 14550, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14550
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14550/c

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 21
US-09-949-016-14551/c
; Sequence 14551, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14551
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14551/c

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 22
US-09-949-016-14552/c
; Sequence 14552, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14552
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14552/c

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930
```

; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14552
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14552

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 23

US-09-949-016-14553/c
; Sequence 14553, Application US/09949016
; Patent No. 6812339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14553
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14553

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 24

US-09-949-016-14554/c
; Sequence 14554, Application US/09949016
; Patent No. 6812339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14554
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14554

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 25

US-09-949-016-14555/c
; Sequence 14555, Application US/09949016
; Patent No. 6812339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14555
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14555

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 26

US-09-949-016-14556/c
; Sequence 14556, Application US/09949016
; Patent No. 6812339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14

FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14556
LENGTH: 818128
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(818128)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14556

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 27

US-09-949-016-14557/c
Sequence 14557, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14557
LENGTH: 818128
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(818128)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14557

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 28

US-09-949-016-14558/c
Sequence 14558, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14558
LENGTH: 818128
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(818128)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14558

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 29

US-09-949-016-14559/c
Sequence 14559, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14559
LENGTH: 818128
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(818128)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14559

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 30

US-09-949-016-14560/c

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; Sequence 14560, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14560
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14560

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db      195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 31
US-09-949-016-14561/c
; Sequence 14561, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14561
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14561

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db      195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

US-09-949-016-14562/c
; Sequence 14562, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14562
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14562

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db      195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

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RESULT 32
US-09-949-016-14562/c
; Sequence 14562, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14562
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14562

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db      195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 33
US-09-949-016-14564/c
; Sequence 14564, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14564
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14564

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db      195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

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Matches	30;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	174	ACATTGCATGTTCTCACTTATTGTGGGAT	203						
Db	195959	ACATTGCATGTTCTCACTTATTGTGGGAT	195930						
<p>RESULT 36</p> <p>US-09-949-016-14567/c</p> <p>; Sequence 14567, Application US/09949016</p> <p>; Patent No. 6812339</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: VENTER, J. Craig et al.</p> <p>; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED</p> <p>; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF</p> <p>; FILE REFERENCE: CL001307</p> <p>; CURRENT APPLICATION NUMBER: US/09/949,016</p> <p>; CURRENT FILING DATE: 2000-04-14</p> <p>; PRIOR APPLICATION NUMBER: 60/241,755</p> <p>; PRIOR FILING DATE: 2000-10-20</p> <p>; PRIOR APPLICATION NUMBER: 60/237,768</p> <p>; PRIOR FILING DATE: 2000-10-03</p> <p>; PRIOR APPLICATION NUMBER: 60/231,498</p> <p>; PRIOR FILING DATE: 2000-09-08</p> <p>; NUMBER OF SEQ ID NOS: 207012</p> <p>; SOFTWARE: FastSeq for Windows Version 4.0</p> <p>; SEQ ID NO 14565</p> <p>; LENGTH: 818128</p> <p>; TYPE: DNA</p> <p>; ORGANISM: Human</p> <p>; FEATURE:</p> <p>; NAME/KEY: misc_feature</p> <p>; LOCATION: (1)...(818128)</p> <p>; OTHER INFORMATION: n = A,T,C or G</p> <p>US-09-949-016-14567</p>									
<p>Query Match 2.2%; Score 30; DB 3; Length 818128;</p> <p>Best Local Similarity 100.0%; Pred. No. 8.6e-05;</p> <p>Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</p>									
Qy	174	ACATTGCATGTTCTCACTTATTGTGGGAT	203						
Db	195959	ACATTGCATGTTCTCACTTATTGTGGGAT	195930						
<p>RESULT 35</p> <p>US-09-949-016-14566/c</p> <p>; Sequence 14566, Application US/09949016</p> <p>; Patent No. 6812339</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: VENTER, J. Craig et al.</p> <p>; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED</p> <p>; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF</p> <p>; FILE REFERENCE: CL001307</p> <p>; CURRENT APPLICATION NUMBER: US/09/949,016</p> <p>; CURRENT FILING DATE: 2000-04-14</p> <p>; PRIOR APPLICATION NUMBER: 60/241,755</p> <p>; PRIOR FILING DATE: 2000-10-20</p> <p>; PRIOR APPLICATION NUMBER: 60/237,768</p> <p>; PRIOR FILING DATE: 2000-10-03</p> <p>; PRIOR APPLICATION NUMBER: 60/231,498</p> <p>; PRIOR FILING DATE: 2000-09-08</p> <p>; NUMBER OF SEQ ID NOS: 207012</p> <p>; SOFTWARE: FastSeq for Windows Version 4.0</p> <p>; SEQ ID NO 14566</p> <p>; LENGTH: 818128</p> <p>; TYPE: DNA</p> <p>; ORGANISM: Human</p> <p>; FEATURE:</p> <p>; NAME/KEY: misc_feature</p> <p>; LOCATION: (1)...(818128)</p> <p>; OTHER INFORMATION: n = A,T,C or G</p> <p>US-09-949-016-14566</p>									
<p>Query Match 2.2%; Score 30; DB 3; Length 818128;</p> <p>Best Local Similarity 100.0%; Pred. No. 8.6e-05;</p> <p>Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</p>									
Qy	174	ACATTGCATGTTCTCACTTATTGTGGGAT	203						
Db	195959	ACATTGCATGTTCTCACTTATTGTGGGAT	195930						
<p>RESULT 35</p> <p>US-09-949-016-14566/c</p> <p>; Sequence 14566, Application US/09949016</p> <p>; Patent No. 6812339</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: VENTER, J. Craig et al.</p> <p>; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED</p> <p>; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF</p> <p>; FILE REFERENCE: CL001307</p> <p>; CURRENT APPLICATION NUMBER: US/09/949,016</p> <p>; CURRENT FILING DATE: 2000-04-14</p> <p>; PRIOR APPLICATION NUMBER: 60/241,755</p> <p>; PRIOR FILING DATE: 2000-10-20</p> <p>; PRIOR APPLICATION NUMBER: 60/237,768</p> <p>; PRIOR FILING DATE: 2000-10-03</p> <p>; PRIOR APPLICATION NUMBER: 60/231,498</p> <p>; PRIOR FILING DATE: 2000-09-08</p> <p>; NUMBER OF SEQ ID NOS: 207012</p> <p>; SOFTWARE: FastSeq for Windows Version 4.0</p> <p>; SEQ ID NO 14566</p> <p>; LENGTH: 818128</p> <p>; TYPE: DNA</p> <p>; ORGANISM: Human</p> <p>; FEATURE:</p> <p>; NAME/KEY: misc_feature</p> <p>; LOCATION: (1)...(818128)</p> <p>; OTHER INFORMATION: n = A,T,C or G</p> <p>US-09-949-016-14566</p>									
<p>Query Match 2.2%; Score 30; DB 3; Length 818128;</p> <p>Best Local Similarity 100.0%; Pred. No. 8.6e-05;</p> <p>Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</p>									

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:39:21 ; Search time 1246 Seconds
(without alignments)
8933.052 Million cell updates/sec

Title: US-09-869-169C-19
Perfect score: 1346
Sequence: 1 ggaagcaacctacatgtcca.....gaagaaggcaagtgcgatg 1346

Scoring table: OLIGO NUC
Gapop_60.0, Gapext 60.0

Searched: 9793542 seqs, 4134689005 residues

Word size : 30

Total number of hits satisfying chosen parameters: 43

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

- Database : Published Applications_NA_Main:*
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 - 2: /cgn2_6/prodata/1/pubpna/US08_PUBCOMB.seq:*
 - 3: /cgn2_6/prodata/1/pubpna/US09A_PUBCOMB.seq:*
 - 4: /cgn2_6/prodata/1/pubpna/US09B_PUBCOMB.seq:*
 - 5: /cgn2_6/prodata/1/pubpna/US10A_PUBCOMB.seq:*
 - 6: /cgn2_6/prodata/1/pubpna/US10B_PUBCOMB.seq:*
 - 7: /cgn2_6/prodata/1/pubpna/US10C_PUBCOMB.seq:*
 - 8: /cgn2_6/prodata/1/pubpna/US10D_PUBCOMB.seq:*
 - 9: /cgn2_6/prodata/1/pubpna/US10E_PUBCOMB.seq:*
 - 10: /cgn2_6/prodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1175	87.3	1254	5	US-10-085-612-4
2	944	70.1	2214	4	US-09-925-065A-675137
3	213	15.8	611	4	US-08-925-065A-839692
4	64	4.8	9690	8	US-10-484-577-662
5	58	4.3	177531	8	US-10-484-577-660
6	45	3.3	47	8	US-10-865-478-304
7	36	2.7	543	4	US-09-925-065A-451420
8	36	2.7	543	4	US-09-925-065A-451421
9	36	2.7	543	4	US-09-925-065A-451422
10	36	2.7	543	4	US-09-925-065A-451423
11	36	2.7	666	4	US-09-925-065A-798147
12	34	2.5	34	5	US-10-085-612-6
13	33	2.5	33	3	US-09-927-718-34
14	33	2.5	33	3	US-09-840-008-34
15	33	2.5	33	6	US-10-081-555C-34
16	33	2.5	33	8	US-10-482-555-26
17	33	2.5	34	5	US-10-085-612-2
18	33	2.5	416	4	US-09-925-065A-355066
19	33	2.5	547	4	US-09-925-065A-320830
20	33	2.5	567	4	US-09-925-065A-728706
21	33	2.5	572	4	US-09-925-065A-788756
22	33	2.5	575	4	US-09-925-065A-789136
23	33	2.5	581	4	US-09-925-065A-560023

RESULT 1

US-10-085-612-4
; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburg, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey

; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4

; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4

Query Match 87.3%; Score 1175; DB 5; Length 1254;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	172	AGACATTGATCTCTCACTTATTTGTGGGATCTACAAATCAAAACAATTGAGCTAATGT	231
Db	12	AGACATTGATCTCTCACTTATTTGTGGGATCTACAAATCAAAACAATTGAGCTAATGT	71
QY	232	CTGGGTCTTAGTCAATTTTGTACCCCTAAGTACAGGAGCAGCCATTAGAATACATGAT	291
Db	72	CTGGGTCTTAGTCAATTTTGTACCCCTAAGTACAGGAGCAGCCATTAGAATACATGAT	131
QY	292	GAATGCTTTAATACAGGAATGATAGTTCAGAGGACAGGGTGGTTCCTCTGA	351
Db	132	GAATGCTTTAATACAGGAATGATAGTTCAGAGGACAGGGTGGTTCCTCTGA	191
QY	352	TACATAGTATCTTCCTTGACACATTCAGTACAACTCTCAACAGGTAACTCTTCATGTA	411
Db	192	TACATAGTATCTTCCTTGACACATTCAGTACAACTCTCAACAGGTAACTCTTCATGTA	251

Qy	412	TGTTACCTCTGAGGAATTAAAGTGGCAGAAATCGCTCTTATTATTTCTTTGCGAGAAC	471
Db	252	TGTTACCTCTGAGGAATTAAAGTGGCAGAAATCGCTCTTATTATTTCTTTGCGAGAAC	311
Qy	472	AAGACCAATTGCAATTAGTTGGGAAACAGTCTGGCTGCATCTGAGGGCCCAAGCAACATT	531
Db	312	AAGACCAATTGCAATTAGTTGGGAAACAGTCTGGCTGCATCTGAGGGCCCAAGCAACATT	371
Qy	532	AGTCTATTGCTATCACCAAGACTCAGAGGGGATGACACACAGGGGCCACAGCAATCTCAC	591
Db	372	AGTCTATTGCTATCACCAAGACTCAGAGGGGATGACACACAGGGGCCACAGCAATCTCAC	431
Qy	592	CCAAGTCAACTCACCAAAATTTCTGGTCAACCAACATGTGTACAGTACCTCTGCTAGGGT	651
Db	432	CCAAGTCAACTCACCAAAATTTCTGGTCAACCAACATGTGTACAGTACCTCTGCTAGGGT	491
Qy	652	CCAGGGTCATGAAGTAAATAATACACAGACTGTGCCCTTGAGGAATCTCACCTCTGCTAAG	711
Db	492	CCAGGGTCATGAAGTAAATAATACACAGACTGTGCCCTTGAGGAATCTCACCTCTGCTAAG	551
Qy	712	GGAAACAGGCACAGAAACCCACAAGGGTGTAGAGAGGAATAGGACAAATAGGACTGTGT	771
Db	552	GGAAACAGGCACAGAAACCCACAAGGGTGTAGAGAGGAATAGGACAAATAGGACTGTGT	611
Qy	772	GAGGGGATAGGAGGCHCACAGAGGAGGAATGGTTACATCTGTGTAGAGAGTTGGTAA	831
Db	612	GAGGGGATAGGAGGCHCACAGAGGAGGAATGGTTACATCTGTGTAGAGAGTTGGTAA	671
Qy	832	GGAAAGACTTTTAATAGAAAGGGTCTGTCTGGCTGGGCTTCAAGGATGTCTGAGAGTCAT	891
Db	672	GGAAAGACTTTTAATAGAAAGGGTCTGTCTGGCTGGGCTTCAAGGATGTCTGAGAGTCAT	731
Qy	892	CTAGGGGGCAACAAGTACACCTCAGGCACAGAGGGAATTGCATGGGTAAAGATCTCGACGTTGT	951
Db	732	CTAGGGGGCAACAAGTACACCTCAGGCACAGAGGGAATTGCATGGGTAAAGATCTCGACGTTGT	791
Qy	952	GGCTTGTGGGGATGGATTTCAAGTATTTCTGGAATGAAGAAGCCATGGAAACAGGGCAG	1011
Db	792	GGCTTGTGGGGATGGATTTCAAGTATTTCTGGAATGAAGAAGCCATGGAAACAGGGCAG	851
Qy	1012	GTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTCAGTTTCTGATAAGAACT	1071
Db	852	GTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTCAGTTTCTGATAAGAACT	911
Qy	1072	CAGGTTCCGTGGACTCCCTGATAAACTGATTAAAGTTGTTTATGATTTCCCATAGAAATAT	1131
Db	912	CAGGTTCCGTGGACTCCCTGATAAACTGATTAAAGTTGTTTATGATTTCCCATAGAAATAT	971
Qy	1132	GAACTCAAGAGAGTAAGCAAGGGGTGTGTGCAATTTCTTTGTCTATGCGCTGAGCTGCA	1191
Db	972	GAACTCAAGAGAGTAAGCAAGGGGTGTGTGCAATTTCTTTGTCTATGCGCTGAGCTGCA	1031
Qy	1192	GGCCCACTCTTCTCCAGCACATAACATTTACAGAGCTTGACCTAAGACTGCTGTGCA	1251
Db	1032	GGCCCACTCTTCTCCAGCACATAACATTTACAGAGCTTGACCTAAGACTGCTGTGCA	1091
Qy	1252	GGGCAGGATGCTCCAGGCACAGCCCGAGCAAAACACAGCACACACGCTGAAAGTAAGAC	1311
Db	1092	GGGCAGGATGCTCCAGGCACAGCCCGAGCAAAACACAGCACACACGCTGAAAGTAAGAC	1151
Qy	1312	TCAGAGGAGACAGTTGAAGAACGCAAGTGCGCATG	1346
Db	1152	TCAGAGGAGACAGTTGAAGAACGCAAGTGCGCATG	1186

RESULT 2

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US-09-325-065A-675137
; Sequence 675137, Application US/09325065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome

```


; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 451422
; LENGTH: 543
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-451422

Query Match 2.7%; Score 36; DB 4; Length 543;
Best Local Similarity 100.0%; Pred. No. 3.3e-08;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 37 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 72

RESULT 10

US-09-925-065A-451423
; Sequence 451423, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 451423
; LENGTH: 543
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-451423

Query Match 2.7%; Score 36; DB 4; Length 543;
Best Local Similarity 100.0%; Pred. No. 3.3e-08;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 37 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 72

RESULT 11

US-09-925-065A-798147
; Sequence 798147, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 798147
; LENGTH: 666
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-798147

Query Match 2.7%; Score 36; DB 4; Length 666;
Best Local Similarity 100.0%; Pred. No. 3.3e-08;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 130 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 165

RESULT 12

US-10-085-612-6
; Sequence 6, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 34
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-6

Query Match 2.5%; Score 34; DB 5; Length 34;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1164 CGATTCTTTGCTACTGGCTGCAGCTGCAGCCCCA 1197
|||||
Db 1 CGATTCTTTGCTACTGGCTGCAGCTGCAGCCCCA 34

RESULT 13

US-09-227-718-34
; Sequence 34, Application US/09227718A
; Publication No. US20030044888A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; APPLICANT: Blumberg, Bruce
; TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR
; TITLE OF INVENTION: RECEPTORS AND USES THEREFOR
; FILE REFERENCE: SALK2270-1

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; CURRENT APPLICATION NUMBER: US/09/227,718A
; CURRENT FILING DATE: 1999-01-08
; EARLIER APPLICATION NUMBER: US 09/005,286
; EARLIER FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CYP3A oligonucleotide, CYP3A5, tested for binding
US-09-227-718-34

Query Match          2.5%; Score 33; DB 3; Length 33;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1124 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 1156
Db 1 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 33

RESULT 14
US-09-840-008-34
; Sequence 34, Application US/09840008
; Publication No. US20030104519A1
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD M.
; TITLE OF INVENTION: XENOBOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND
; FILE REFERENCE: SALK2270-4
; CURRENT APPLICATION NUMBER: US/09/840,008
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 09/458,366
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-840-008-34

Query Match          2.5%; Score 33; DB 3; Length 33;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1124 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 1156
Db 1 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 33

RESULT 15
US-10-081-555C-34
; Sequence 34, Application US/10081555C
; Publication No. US20030223993A1
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD M.
; TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR RECEPTORS AND USES THEREFOR
; FILE REFERENCE: SALK2270-5 (08802-5212)
; CURRENT APPLICATION NUMBER: US/10/081,555C
; CURRENT FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: 09/458,366
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 09/227,718
; PRIOR FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-081-555C-34

Query Match          2.5%; Score 33; DB 6; Length 33;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1124 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 1156
Db 1 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 33

RESULT 16
US-10-482-555-26
; Sequence 26, Application US/10482555
; Publication No. US20040254135A1
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD
; APPLICANT: XIE, WEN
; TITLE OF INVENTION: MODULATION OF METABOLISM OF STEROIDS AND XENOBIOTICS
; FILE REFERENCE: SALK3070-1
; CURRENT APPLICATION NUMBER: US/10/482,555
; CURRENT FILING DATE: 2003-12-30
; PRIOR APPLICATION NUMBER: PCT/US02/21800
; PRIOR FILING DATE: 2002-07-09
; PRIOR APPLICATION NUMBER: 60/304,388
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 26
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-482-555-26

Query Match          2.5%; Score 33; DB 8; Length 33;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1124 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 1156
Db 1 TAGAATATGAACTCAAAGGAGGTAAGCAAAGGG 33

RESULT 17
US-10-085-612-2
; Sequence 2, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE REFERENCE: 4389-5-Cl
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
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; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 788756
; LENGTH: 572
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-788756

Query Match      2.5%; Score 33; DB 4; Length 572;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 296 ACATTGCATGTTCTCACTTATTGTGGGATCTA 264

RESULT 22
US-09-925-065A-789136/c
; Sequence 789136, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-05-09
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 789136
; LENGTH: 575
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-789136

Query Match      2.5%; Score 33; DB 4; Length 575;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 296 ACATTGCATGTTCTCACTTATTGTGGGATCTA 264

RESULT 23
US-09-925-065A-560023/c
; Sequence 560023, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
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; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 560023
; LENGTH: 581
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-560023

Query Match      2.5%; Score 33; DB 4; Length 581;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 51 ACATTGCATGTTCTCACTTATTGTGGGATCTA 19

RESULT 24
US-09-925-065A-613685/c
; Sequence 613685, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 613685
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-613685

Query Match      2.5%; Score 33; DB 4; Length 590;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 280 ACATTGCATGTTCTCACTTATTGTGGGATCTA 248

RESULT 25
US-10-027-632-203073
; Sequence 203073, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
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; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 203073
; LENGTH: 1902
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-203073

Query Match 2.5%; Score 33; DB 5; Length 1902;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 206
|||||
Db 1019 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 1051

RESULT 26

US-10-027-632-203073
; Sequence 203073, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30

; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 203073
; LENGTH: 1902
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-203073

Query Match 2.5%; Score 33; DB 6; Length 1902;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 206
|||||
Db 1019 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 1051

RESULT 27

US-10-087-192-250/c
; Sequence 250, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 250
; LENGTH: 370469
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-087-192-250

Query Match 2.5%; Score 33; DB 5; Length 370469;
Best Local Similarity 100.0%; Pred. No. 1.8e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 206
|||||
Db 158366 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 158334

RESULT 28

US-10-719-993-6940
; Sequence 6940, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.

; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6940
; LENGTH: 1790242
; TYPE: DNA
; ORGANISM: Homo sapiens

; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..-(1790242)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-;
US-10-719-993-6940

Query Match 2.5%; Score 33; DB 8; Length 1790242;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 206
|||||
Db 360349 ACATTGCATGTTCTCACTTATTGTTGGGATCTA 360381

RESULT 29

US-09-864-761-1636/c
; Sequence 1636, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.

; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng

;; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;; FILE REFERENCE: Aeonlca-X-1
;; CURRENT APPLICATION NUMBER: US/09/864,761
;; CURRENT FILING DATE: 2001-05-23

;; PRIOR APPLICATION NUMBER: US 60/180,312
;; PRIOR FILING DATE: 2000-02-04
;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04
;; PRIOR APPLICATION NUMBER: US 60/236,359
;; PRIOR FILING DATE: 2000-09-27
;; PRIOR APPLICATION NUMBER: PCT/US01/00666
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00667
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00664
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00665
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00668
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00663
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 1636
;; LENGTH: 447
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AL049543.14
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.7
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.6
;; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
;; US-09-864-761-1636

Query Match 2.4%; Score 32; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 4.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCATTATTGTTGGGATCTA 206
|||||
Db 92 CATTGCATGTTCTCATTATTGTTGGGATCTA 61
|||||

RESULT 30
US-09-925-065A-829160/c
; Sequence 829160, Application US/09925065A

;; Publication No. US20050228172A9
;; GENERAL INFORMATION:
;; APPLICANT: Wang, David G.
;; TITLE OF INVENTION: Identification and Mapping of Single
;; Nucleotide Polymorphisms in the Human Genome
;; FILE REFERENCE: 108827.135
;; CURRENT APPLICATION NUMBER: US/09/925,065A
;; CURRENT FILING DATE: 2001-08-08
;; PRIOR APPLICATION NUMBER: US 60/243,096
;; PRIOR FILING DATE: 2000-10-24
;; PRIOR APPLICATION NUMBER: US 60/252,147
;; PRIOR FILING DATE: 2000-11-20
;; PRIOR APPLICATION NUMBER: US 60/250,092
;; PRIOR FILING DATE: 2000-11-30
;; PRIOR APPLICATION NUMBER: US 60/261,766
;; PRIOR FILING DATE: 2001-01-16
;; PRIOR APPLICATION NUMBER: US 60/289,846
;; PRIOR FILING DATE: 2001-05-09
;; NUMBER OF SEQ ID NOS: 957086
;; SOFTWARE: FastSEQ for Windows Version 4.0
;; SEQ ID NO 829160
;; LENGTH: 584
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; US-09-925-065A-829160

Query Match 2.4%; Score 32; DB 4; Length 584;
Best Local Similarity 100.0%; Pred. No. 5e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCATTATTGTTGGGATCTA 206
|||||
Db 584 CATTGCATGTTCTCATTATTGTTGGGATCTA 553
|||||

RESULT 31
US-09-925-065A-832072
; Sequence 832072, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 832072
; LENGTH: 586
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-832072

Query Match 2.4%; Score 32; DB 4; Length 586;
Best Local Similarity 100.0%; Pred. No. 5e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCATTATTGTTGGGATCTA 206
|||||
Db 1 CATTGCATGTTCTCATTATTGTTGGGATCTA 32
|||||

RESULT 30
US-09-925-065A-829160/c
; Sequence 829160, Application US/09925065A

RESULT 32
US-09-925-065A-723519
; Sequence 723519, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 723519
; LENGTH: 1973
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-723519

Query Match 2.4%; Score 32; DB 4; Length 1973;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 175 CATTGATGTTCTCACATTATTGGGATCTA 206
|||||
Db 647 CATTGATGTTCTCACATTATTGGGATCTA 678
|||||

RESULT 33
US-09-925-065A-807869
; Sequence 807869, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 807869
; LENGTH: 569
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-807869

Query Match 2.2%; Score 30; DB 4; Length 569;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
|||||

Db 25 CATTATGTTAGTAAATAAGCCAGGCACA 54

RESULT 34
US-09-925-065A-804583/c
; Sequence 804583, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 804583
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-804583

Query Match 2.2%; Score 30; DB 4; Length 571;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGTAAATAAGCCAGGCACA 164
|||||
Db 545 CATTATGTTAGTAAATAAGCCAGGCACA 516
|||||

RESULT 35
US-09-925-065A-741196/c
; Sequence 741196, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 741196
; LENGTH: 574
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-741196

Query Match 2.2%; Score 30; DB 4; Length 574;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 135 CATTATGTTAGGTAATAAAGCCAGGCACA 164
      |||||
Db 545 CATTATGTTAGGTAATAAAGCCAGGCACA 516

RESULT 36
US-09-925-065A-798807/c
; Sequence 798807, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR FILING DATE: 2000-11-20
; PRIOR FILING DATE: 2001-01-16
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 798807
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-798807

Query Match 2.2%; Score 30; DB 4; Length 600;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAAGCCAGGCACA 164
      |||||
Db 106 CATTATGTTAGGTAATAAAGCCAGGCACA 77

RESULT 37
US-09-925-065A-852923/c
; Sequence 852923, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR FILING DATE: 2000-11-20
; PRIOR FILING DATE: 2001-01-16
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 852923
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-852923

Query Match 2.2%; Score 30; DB 4; Length 600;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAAGCCAGGCACA 164
      |||||
Db 106 CATTATGTTAGGTAATAAAGCCAGGCACA 77

RESULT 38
US-09-925-065A-852924/c
; Sequence 852924, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 852924
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-852924

Query Match 2.2%; Score 30; DB 4; Length 600;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAAGCCAGGCACA 164
      |||||
Db 106 CATTATGTTAGGTAATAAAGCCAGGCACA 77

RESULT 39
US-09-925-065A-745142/c
; Sequence 745142, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 745142
; LENGTH: 601
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
US-09-925-065A-745142

Query Match      2.2%; Score 30; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 177 TTGCATGTTCTCACTTATTGTGGGATCTA 206
      |||||||
Db 55 TTGCATGTTCTCACTTATTGTGGGATCTA 26

RESULT 40
US-09-925-065A-748584/c
; Sequence 748584, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 748584
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-748584

Query Match      2.2%; Score 30; DB 4; Length 608;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
      |||||||
Db 114 CATTATGTTAGGTAATAAGCCAGGCACA 85

RESULT 41
US-09-925-065A-821617/c
; Sequence 821617, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
```

```
; SEQ ID NO 821617
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-821617

Query Match      2.2%; Score 30; DB 4; Length 608;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
      |||||||
Db 114 CATTATGTTAGGTAATAAGCCAGGCACA 85

RESULT 42
US-09-925-065A-821618/c
; Sequence 821618, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 821618
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-821618

Query Match      2.2%; Score 30; DB 4; Length 608;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
      |||||||
Db 114 CATTATGTTAGGTAATAAGCCAGGCACA 85

RESULT 43
US-10-322-281-10
; Sequence 10, Application US/10322281
; Publication No. US20040126762A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 152759
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(152759)
```

; OTHER INFORMATION: n = A,T,C or G
US-10-322-281-10

Query Match 2.2%; Score 30; DB 7; Length 152759;
Best Local Similarity 100.0%; Pred. No. 7.4e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 177 TTGCATGTTCTCACTTATTGTGGATCTA 206
|||||
Db 149989 TTGCATGTTCTCACTTATTGTGGATCTA 150018
|||||

Search completed: January 11, 2006, 07:58:02
Job time : 1254 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 05:12:36 ; Search time 349 Seconds
(without alignments)
3121.441 Million cell updates/sec

Title: US-09-869-169C-19
Perfect score: 1346
Sequence: 1 ggaagcaactacatgtcca.....gaagaaggcaagtgcgatg 1346

Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 6038814 seqs, 404674181 residues

Word size : 30.4

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database : Published_Applications_NA_New.*
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description

No matches found

Search completed: January 11, 2006, 08:03:51
Job time : 349 secs

THIS PAGE B. A JK (USF10)